TOSHIBA

FILE NO. 030-9518

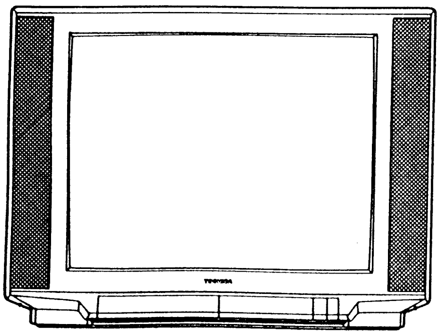
SERVICE MANUAL

COLOUR TELEVISION

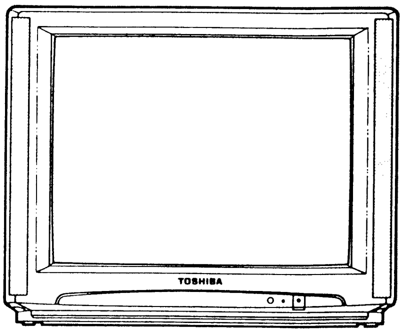
C5SR Chassis

2552DD, 2853DD
7053DD

2853DD/7053DD



2552DD



PRINTED IN JAPAN, Dec., 1995 (So)

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.5 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 29.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
   For continued safety, replacement component should only be made after referring the Product Safety Notice below.

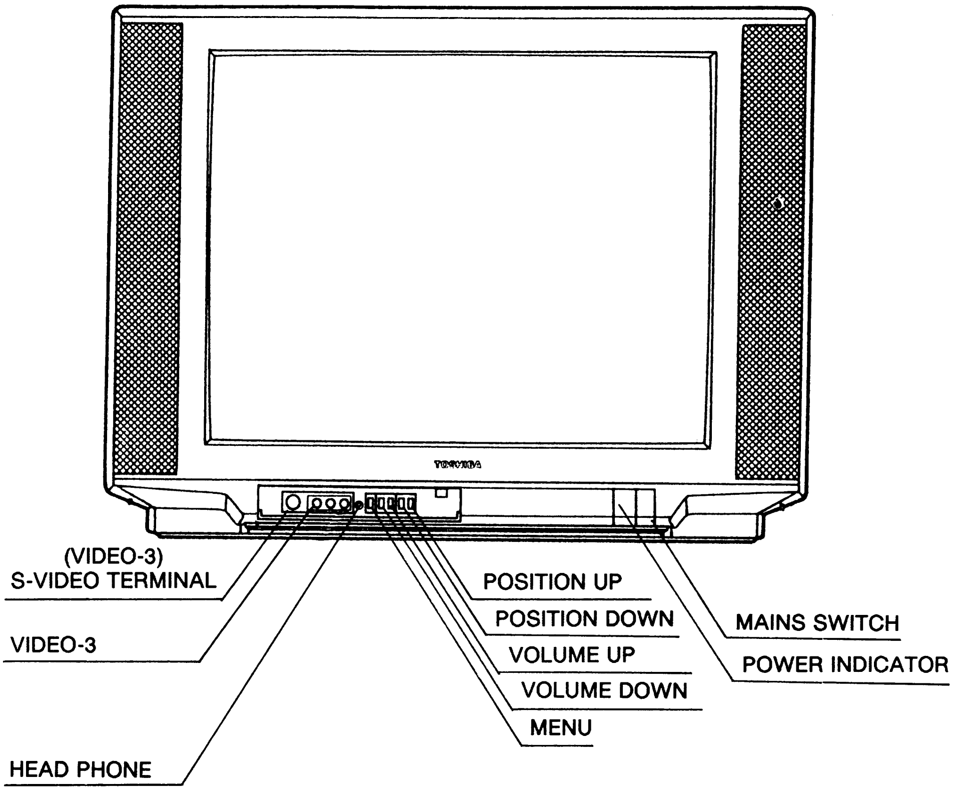
SAFETY PRECAUTION

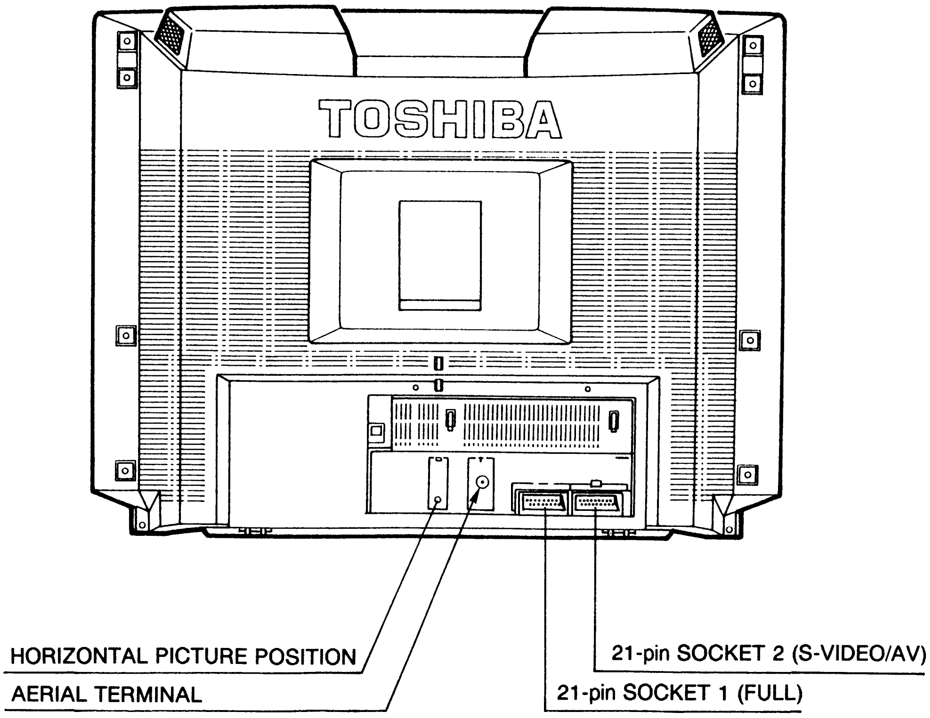
1. This receiver has a nominal working E.H.T. voltage of 24.5 kV. Extreme caution should be exercised when working on the receiver with the back removed.
   Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
   When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
   The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
   Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

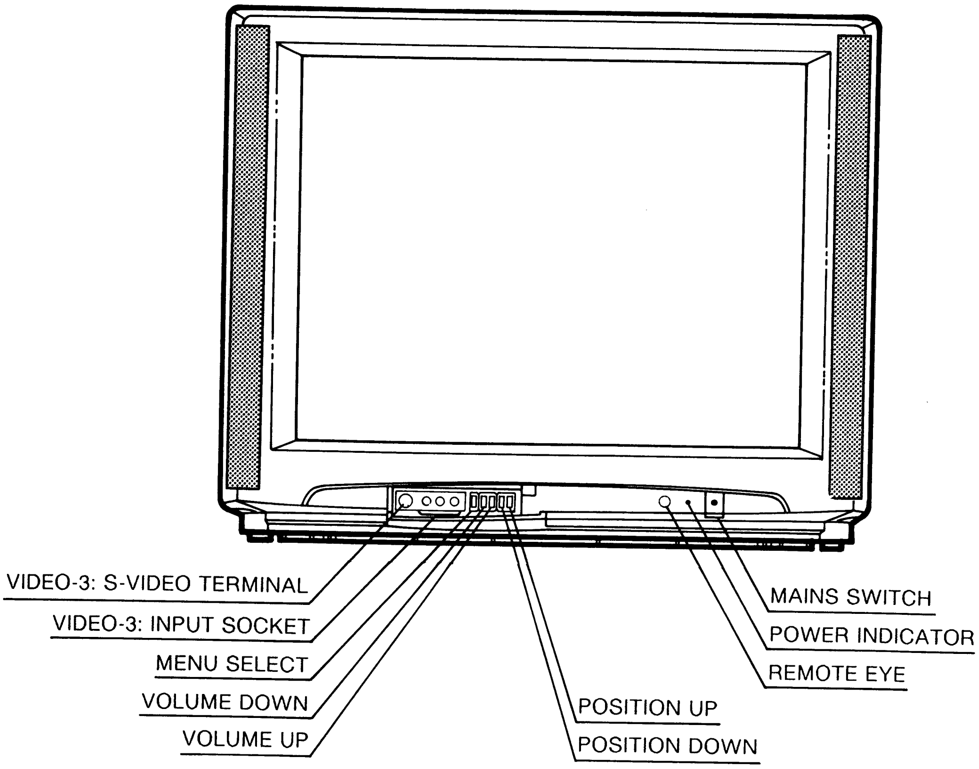
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

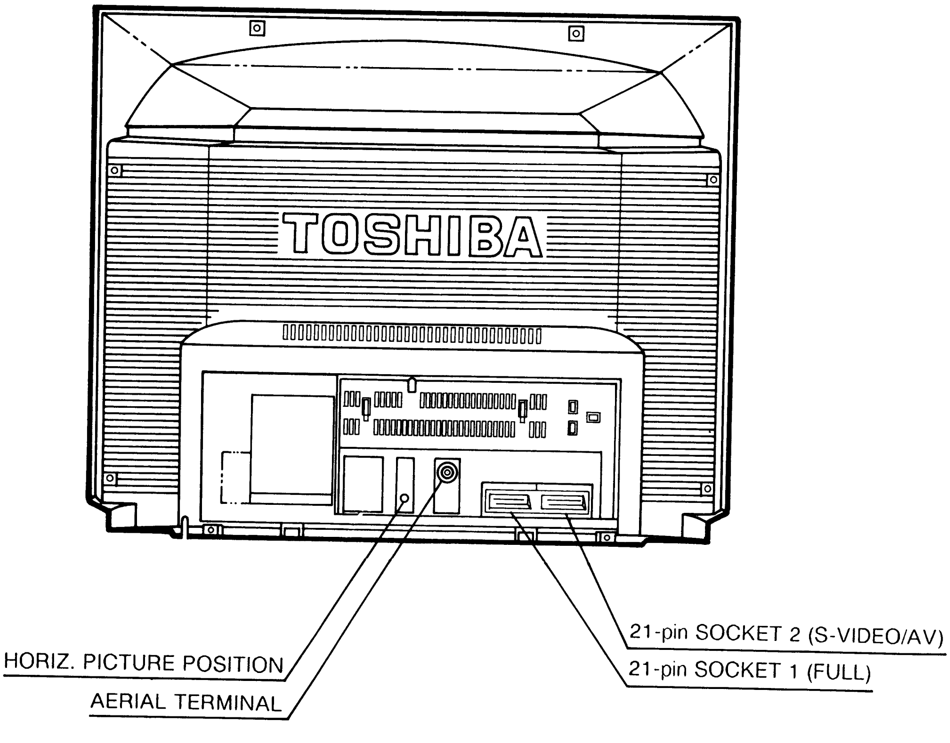
FRONT CONTROLS AND REAR VIEWS (2853DD/7053DD)


(VIDEO-3)
S-VIDEO TERMINAL
VIDEO-3
HEAD PHONE
POSITION UP
POSITION DOWN
VOLUME UP
VOLUME DOWN
MENU
MAINS SWITCH
POWER INDICATOR
TOSHIBA

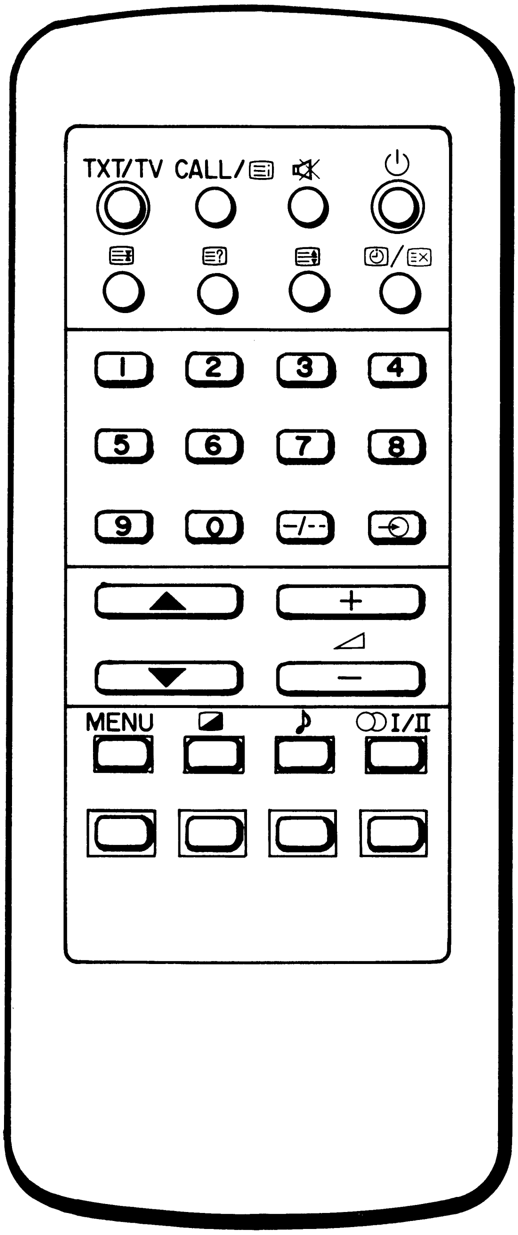

TOSHIBA
HORIZONTAL PICTURE POSITION
AERIAL TERMINAL
21-pin SOCKET 2 (S-VIDEO/AV)
21-pin SOCKET 1 (FULL)

FRONT CONTROLS AND REAR VIEWS (2552DD)


VIDEO-3: S-VIDEO TERMINAL
VIDEO-3: INPUT SOCKET
MENU SELECT
VOLUME DOWN
VOLUME UP
POSITION UP
POSITION DOWN
MAINS SWITCH
POWER INDICATOR
REMOTE EYE


TOSHIBA
HORIZ. PICTURE POSITION
AERIAL TERMINAL
21-pin SOCKET 2 (S-VIDEO/AV)
21-pin SOCKET 1 (FULL)

REMOTE HAND HELD UNIT

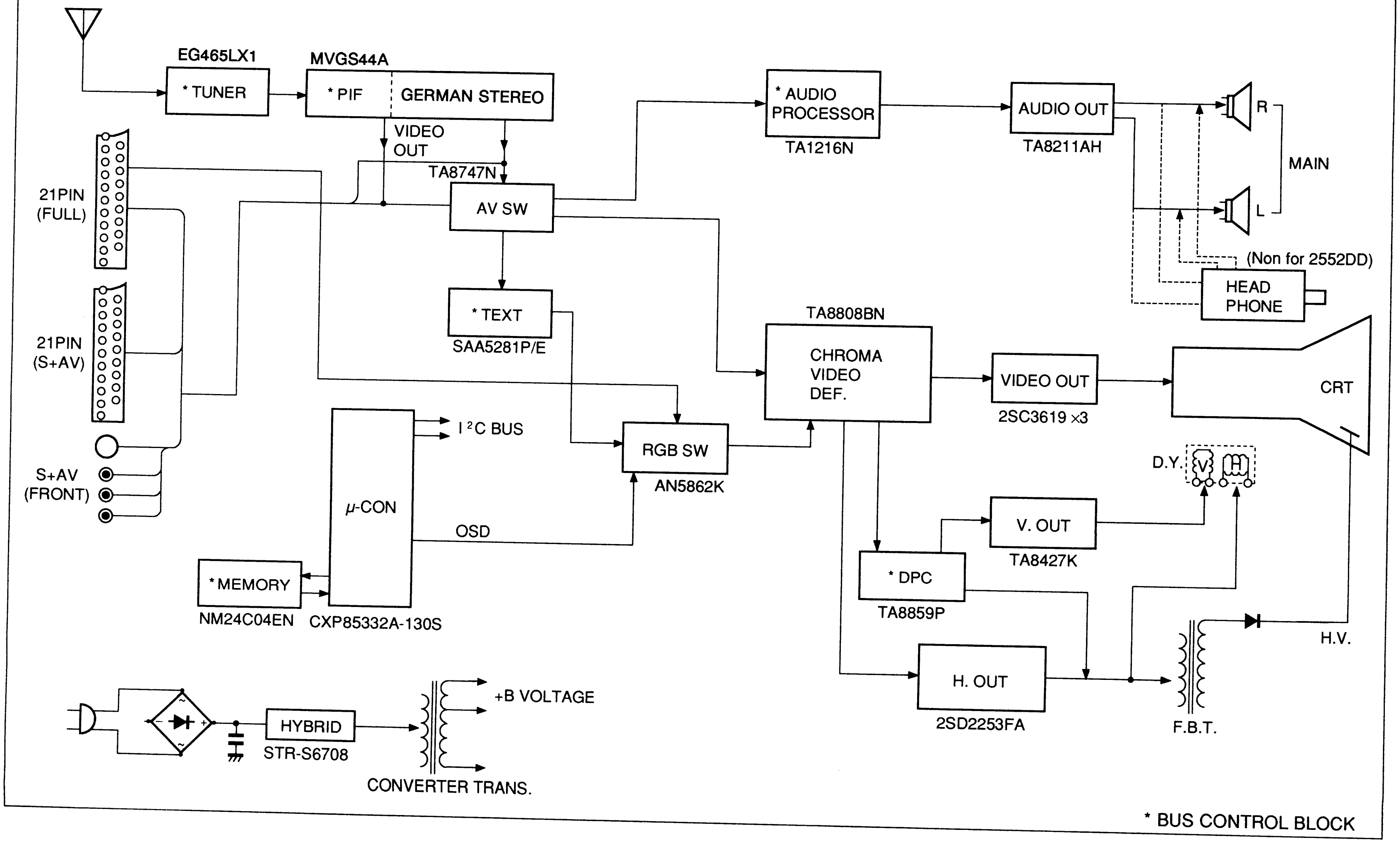


CT-9785

KEY ASSIGNMENT

	⏻	ON/STAND-BY
	🔇	MUTE
	CALL	DISPLAY CALL
	MENU	TUNING & OTHER MENU
	◪	PICTURE MENU
	♪	SOUND MENU
	ꝏ I/II	<TV MODE> ………. STEREO BILINGUAL
	1~9, 0	TEN KEY
	-/--	1 or 2 place
	-⊙	VIDEO INPUT (EXTERNAL INPUT SOURCE SW.)
	⊿	VOLUME
	+	LEVEL PLUS (VOLUME, MENU)
	−	LEVEL MINUS (VOLUME, MENU)
	▲	UP (POSI., CH., TEXT PAGE)
	▼	DOWN (POSI., CH., TEXT PAGE)
TELE-TEXT	TXT/TV	TEXT, MIX, TV MODE SW.
	≣+	HOLD
	≣!	<TEXT MODE> ……. REVEAL / CONCEAL
	≣?	<TEXT MODE> ……. F-T-B (FULL, TOP, BOTTOM)
	⊙/≣x	TIME DISPLAY (TV MODE) TEXT CLEAR (TEXT MODE)
	≣i	INDEX, INITIAL
	FLOF COLOUR KEY (4 key used)	Red/Green/Yellow/Blue

CIRCUIT BLOCK DIAGRAM


EG465LX1
* TUNER
MVGS44A
* PIF
GERMAN STEREO
VIDEO OUT
TA8747N
AV SW
* TEXT
SAA5281P/E
21PIN (FULL)
21PIN (S+AV)
S+AV (FRONT)
* AUDIO PROCESSOR
TA1216N
AUDIO OUT
TA8211AH
R
L
MAIN
(Non for 2552DD)
HEAD PHONE
TA8808BN
CHROMA VIDEO DEF.
VIDEO OUT
2SC3619 ×3
CRT
D.Y.
V
H
I 2C BUS
μ-CON
OSD
RGB SW
AN5862K
* MEMORY
NM24C04EN
CXP85332A-130S
V. OUT
TA8427K
* DPC
TA8859P
H. OUT
2SD2253FA
F.B.T.
H.V.
HYBRID
STR-S6708
+B VOLTAGE
CONVERTER TRANS.

* BUS CONTROL BLOCK

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least 30 minutes in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 29.0 kV.

HORIZONTAL CENTRE ADJUSTMENT

1. Receive the WG PHILIPS pattern.
2. Set the contrast and colour to centre, and the brightness to centre.
3. Adjust H. CENTER USER Control (R452) so the pattern centre can be located at the screen centre.

FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.

PAL MATRIX ADJUSTMENT

1. Tune in the colour programme of the Philips pattern.
2. Set the COLOUR Control to obtain the proper colour.
3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

CRT GREY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Set the SERVICE SW. (S202) in the "H. LINE" position.
3. Turn the SCREEN Control (on T461) fully counter-clockwise.
4. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) to the mid position.
5. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the center.
6. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
7. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE). The lines may look like white if the CUT OFF Controls are adjusted properly.
8. Set the SERVICE SW. (S202) in the "RECEIVE" position.
9. Set the CONTRAST and COLOUR Controls to minimum, and BRIGHTNESS Control to the maximum.
10. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
11. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

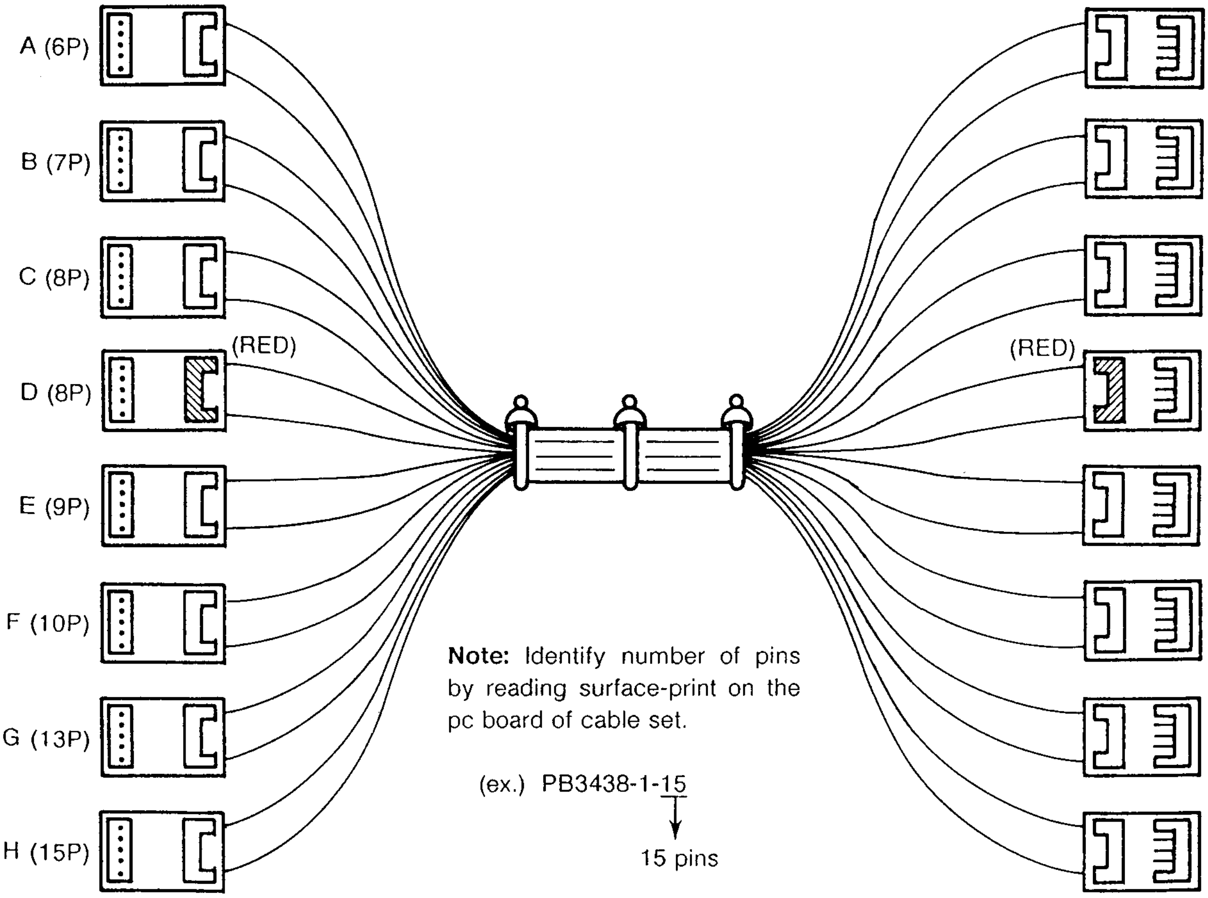
SUB-BRIGHTNESS ADJUSTMENT

1. Tune in a colour programme.
2. Set the CONTRAST Control to the minimum and the BRIGHTNESS Control to the centre.
3. Set the COLOUR Control to the centre.
4. Set the SUB-BRIGHT. Control (R255) to the centre and leave the receiver for five minutes in this state.
5. Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
6. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT. Control again for the acceptable picture.

EXTENSION CABLE SET

1. Extension Cable Set is available for servicing modules of C2DB chassis.
   For 2552DD, 2853DD, 7053DD chassis, however, this cable is used for CHROMA Board.
2. Identify number of pins by reading surface-print on the pc board of cable set.

Part No.	Description
23305270	Extension Cable Set

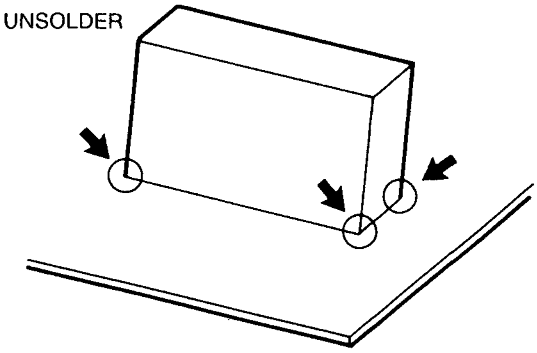


Note: Identify number of pins by reading surface-print on the pc board of cable set.

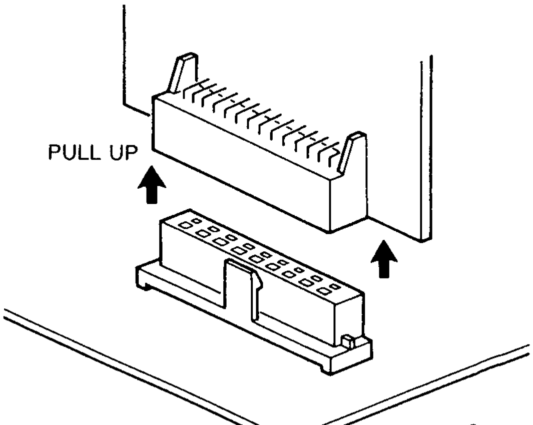
(ex.) PB3438-1-15 → 15 pins

TO USE THE CABLE SET

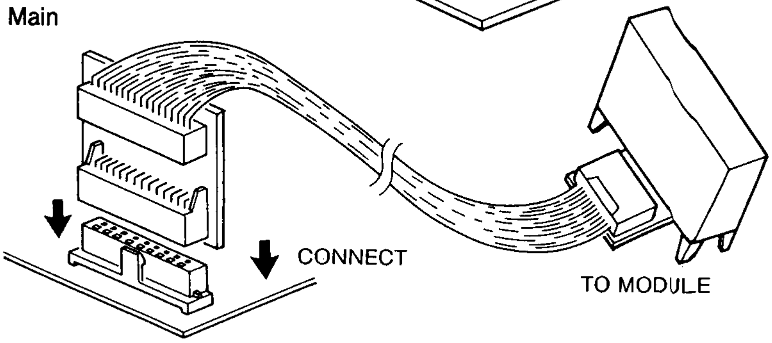
1. Unsolder corners on shielding case of module, which are marked with arrow in the figure.



2. Remove shielding case, and pull up module to disconnect.

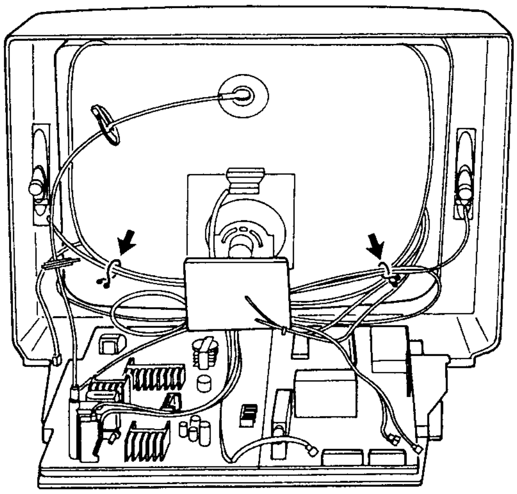


3. Connect Extension Cable Set to module and Main board.

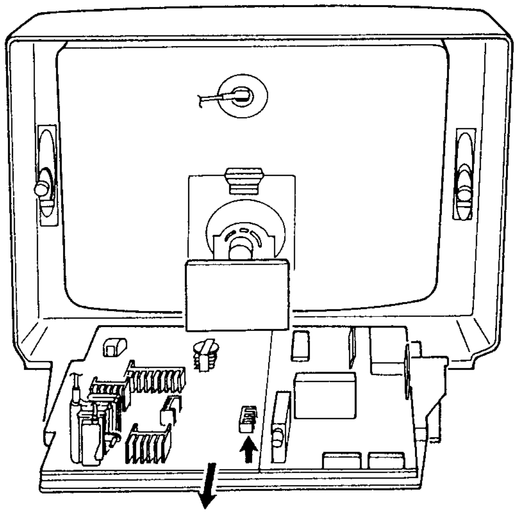

CONNECT
TO MODULE

HOW TO MAKE THE CHASSIS STAND FOR REPAIR OF THE 2853DD 7053DD

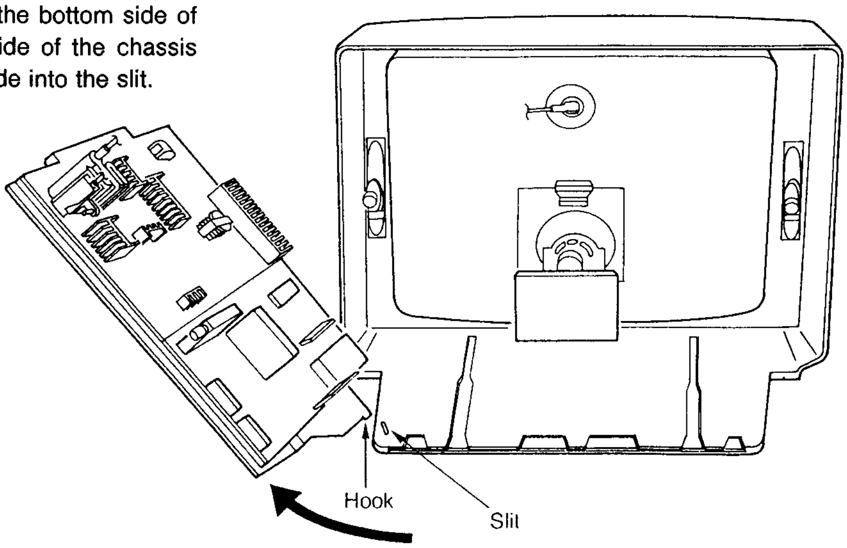
1. Disconnect the lead wires for the speaker fixed to the degausser coil with three omega clips.



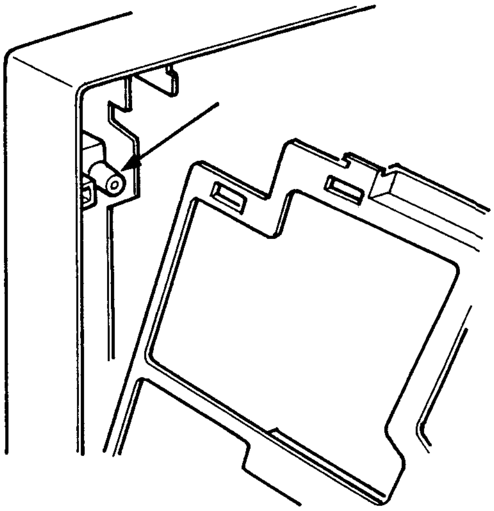
2. Lifting up slightly, pull out the chassis from the front mask.



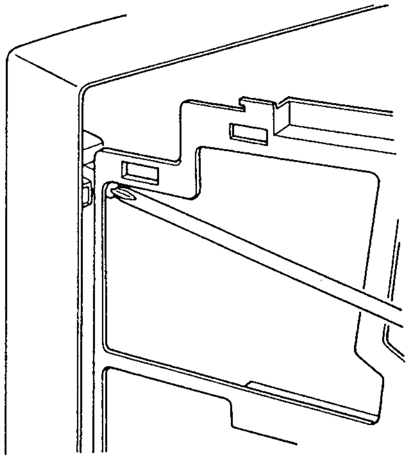
3. There is a slit at the left front of the bottom side of the front mask. Lift up the left side of the chassis and insert the hook at the right side into the slit.



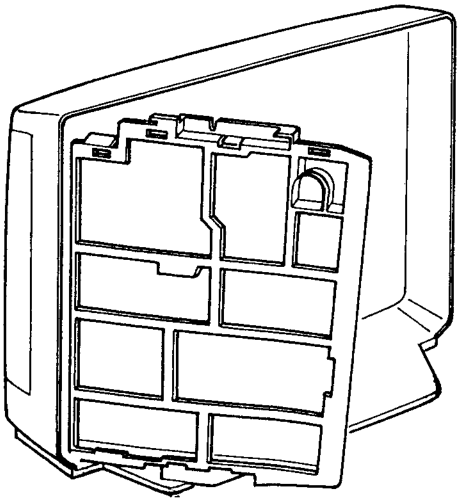
4. 2853DD:
   To retain the chassis, use the upper left boss (highest boss) which is marked with No. 29.



5. Fix it with screws for back cover fixing.
   Upper hole of the chassis frame for 2853, 7053 and the lower hole of the chassis frame for 2155 series.

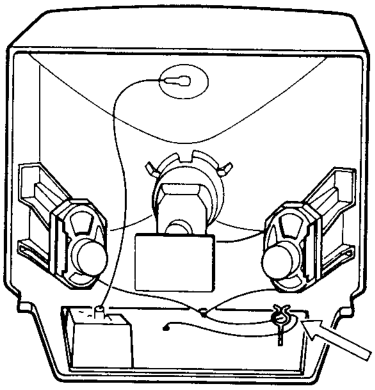


6. After repair works, restore the unit by reversing the above steps.

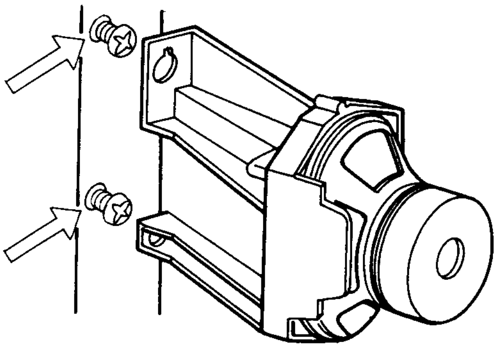


HOW TO MAKE THE CHASSIS STAND FOR REPAIR OF THE 2552DD

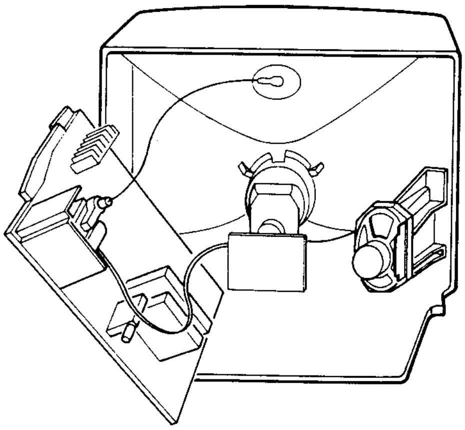
1. Remove the wire set for the loud speaker from the holder.



2. Remove the horn speaker unit (unscrew the fixing screws).

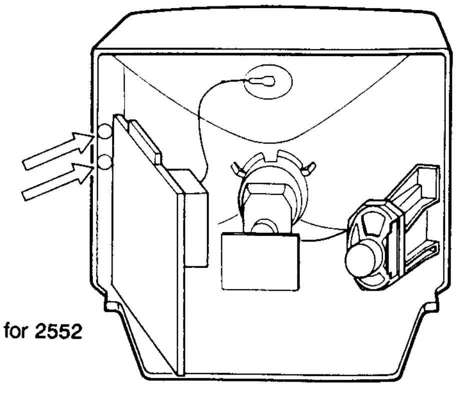


3. Lift up the chassis in such manner that it stands against the inner side surface of the front mask.



4. Using the screws which have been removed when disconnecting the front mask and the back cover, screw the chassis to the side of the front mask.

5. To restore, perform the above steps in opposite order.



The lower hole for 2552 series.

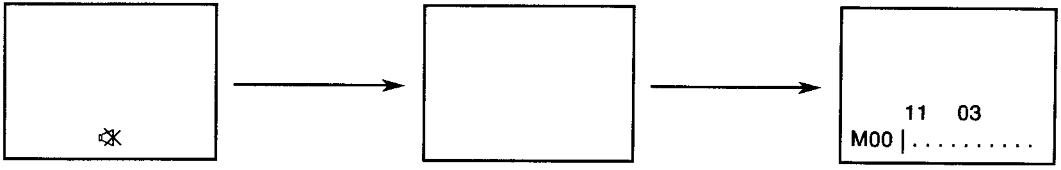
SERVICE MODE GENERAL INSTRUCTIONS

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

2) Press 🔇 button again to keep pressing.

3) Keep pressing the 🔇 button, press MENU button on TV set.



(Service mode display)

2. SELECTING THE ADJUSTING ITEMS

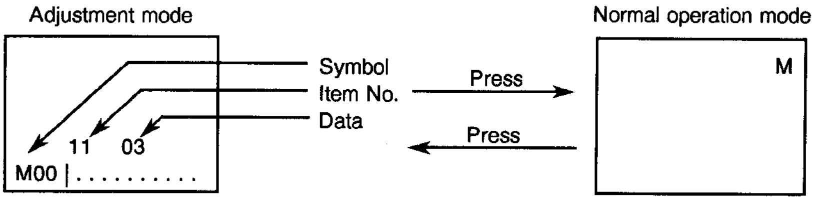
Every pressing of CHANNEL ▲ button changes the adjustment items in the following order. (▼ button for reverse order.)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00 to FF. The variable range depends on the adjusting item.

4. NORMAL OPERATION ON THE SERVICE MODE

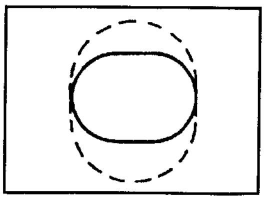
Press MENU button on TV.

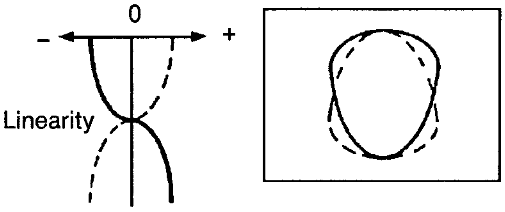
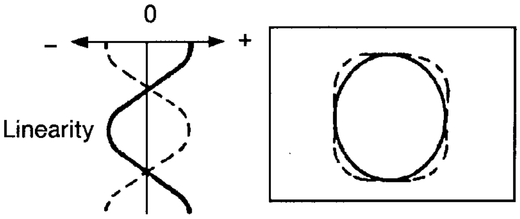
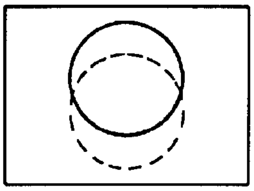
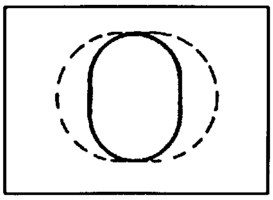

Adjustment mode
Normal operation mode
Symbol
Item No.
Data
Press
Press
M
11 03
M00 | . . . .

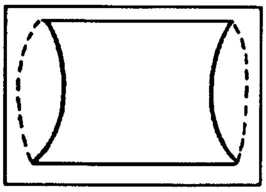
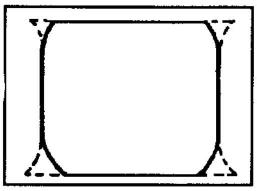
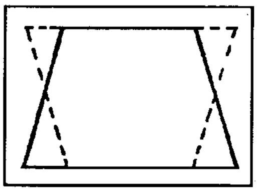
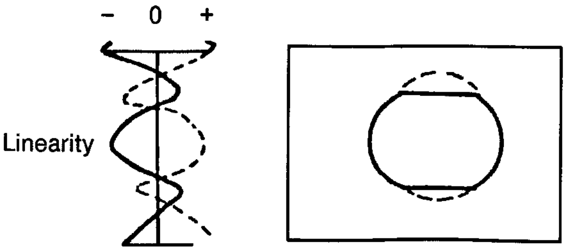
5. EXIT FROM SERVICE MODE

Press POWER button on the remote control to turn off the TV once.

SUB DATA ADDITIONAL DESCRIPTION

Symbol	Description
HIT	V amplitude adjustment. 

Symbol	Description
LIN	V linearity correction 1.  Linearity balance between top and bottom screen.
VSC	V linearity correction 2.  Linearity balance between top/bottom and center.
VPC	V picture position adjustment. 
VCP	Setting of amount of V amplitude correction against variation of screen brightness.
WID	H amplitude adjustment. 

Symbol	Description
DPC	H pin-cushion distortion correction. 
CNR	H pin-cushion distortion correction at four corners. 
KEY	Pedestal distortion correction. 
HCP	Setting of amount of H amplitude correction against variation of screen brightness.
VMC	V linearity correction. Linearity balance at 1/4, 3/4 areas from top. 

ADJUSTMENT PROCEDURE

Adjustment parts or Bus control item	Input point/ Output point	Adjustment signal	Adjustment conditions and procedures
: Horizontal amplitude adjustment (WID) : Pin distortion compensation amount adjustment (DPC) : Keystone distortion compensation amount adjustment (KEY)	Visual check of picture (Bus control)	WG Philips pattern Do not use the Philips pattern of FRANCESECAM.	1. Conditions: After V. HEIGHT, VERT POSITION and H. CENT have been adjusted, set the controllers as follows: Contrast: Max Brightness: Center Color: Center 2. Adjustment procedure a. Adjust the horizontal amplitude by the sub address WID. Adjust so that the left and right white flags of Philips pattern disappear at the very limits. b. Make the left and right vertical bars straight by the sub address DPC. c. Compensate the key distortion by the sub address KEY. d. Again, adjust the sub address WID.
: HEIGHT (HIT) : VERT. POSITION (VPS)	Visual check of picture (Bus control)	WG Philips pattern Do not use the Philips pattern of FRANCESECAM.	1. Conditions: Contrast: Max Brightness: Center Color: Center 2. Adjustment procedure a. By the bus address VPS, adjust V. position so that the circle of Philips pattern comes to the vertical center. b. Adjust HIT so that the upper and lower flags of Philips pattern disappear at the very limits.

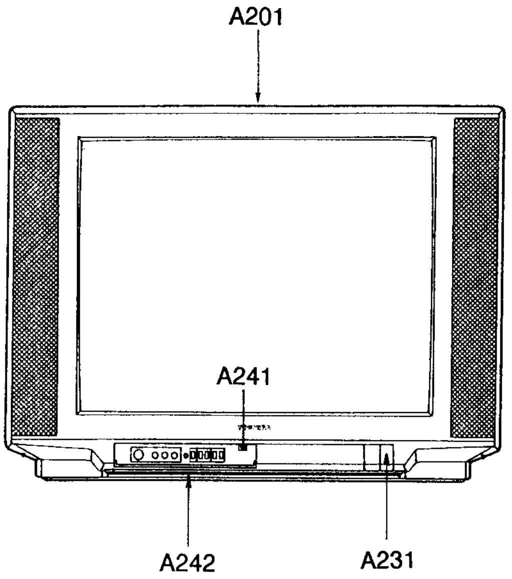
ROM DATA LIST FOR IIC BUS CONTROL

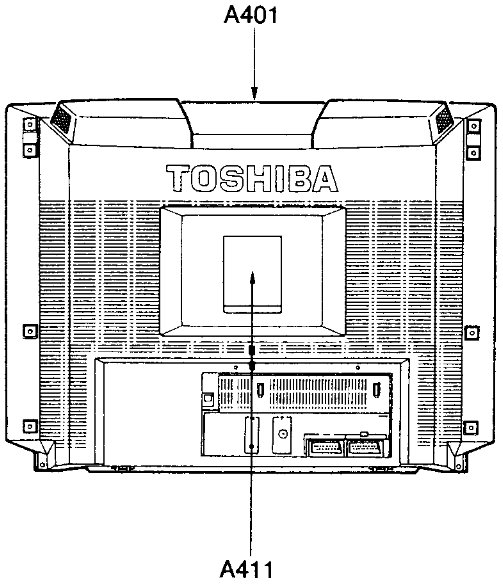
(Reference Value)

Symbol	Comment	Data	
		2552DD	2853DD, 7053DD
M00	MODE 0	49	49
M01	MODE 1	48	48
M01	MODE 1 USE ALPS TUNER	16	16
M02	MODE 2	02	02
M03	MODE 3	50	50
HIT	HEIGHT	* 30	* 30
LIN	V. LINEARITY	32	32
VSC	V. S-CORRECTION	32	32
VPS	V. POSITION	* 07	* 07
VCP	V. COMPENSATION	30	30
WID	H. WIDTH	* 22	* 26
DPC	DPC	* 26	* 24
CNR	DPC CORNER	44(PHILIPS)/32(V/C TUBE)	32
KEY	KEYSTONE	* 09	* 09
HCP	H. COMPENSATION	10	10
VMC	V. M-CORRECTION	52	41
SHI	16:9 SUB HEIGHT	00	00
SLI	16:9 SUB V. LINEARITY	32	32
SVS	16:9 SUB V. S-CORRECTION	17	17
SDP	16:9 SUB DPC	18(PHILIPS)/21(V/C TUBE)	17(PHILIPS)/21(V/C TUBE)
SCN	16:9 SUB CORNER	30	30
WCT	WOOFER FC SET	12	12
BAC	BASS CENTER	50	39
TRC	TREBLE CENTER	44	48
BAX	BASS MAX	79	79
WON	BAZOOKA AUTO	06	01
WOF	BAZOOKA OFF	25	19
BAE	BASS UP	01	02
TRE	TREBLE UP	10	08
VOE	VOL UP	00	00
WFL	WOOFER LEVEL	100	100
EMX	NICAM OFF LEVEL (PHIL)	– –	252
EMN	NICAM ON LEVEL (PHIL)	– –	100
FMA	FM INPUT ATT (PHIL)	– –	00
STS	STEREO SEPARATION	00	00

* Mark items should be adjusted.

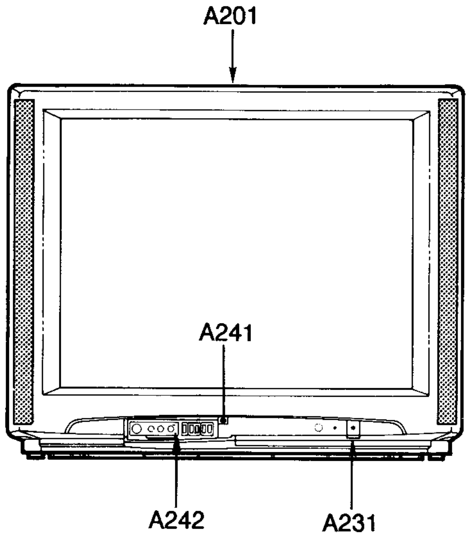
CABINET REPLACEMENT PARTS LIST (2853DD/7053DD)

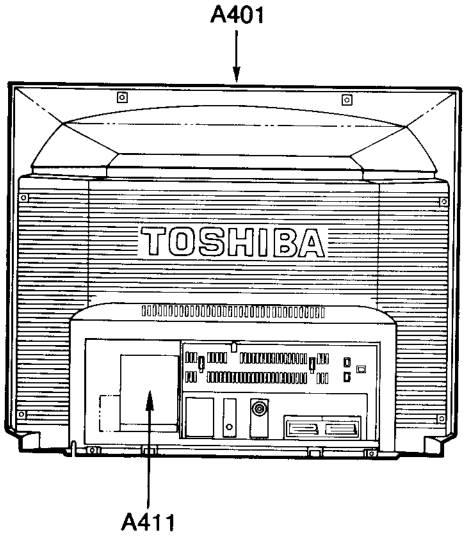

A201
A241
A242
A231


A401
TOSHIBA
A411

Location No.	Part No.	Description
A201	23410698	Front Cover (2853DD)
A201	23410773	Front Cover (7053DD)
A231	23444832	Button, POWER
A241	70368125	Push Catch for Door
A242	23426615	Door
⚠A401	23426393	Back Cover
A411	23569730	Label, Model No. (2853DD)
A411	23569733	Label, Model No. (7053DD)

CABINET REPLACEMENT PARTS LIST (2552DD)


A201
A241
A242
A231


A401
TOSHIBA
A411

Location No.	Part No.	Description
A201	23410777	Front Cover
A231	23443775	Button, POWER
A241	70368125	Push Catch for Door
A242	23425536	Door
⚠A401	23425494	Back Cover
A411	23569738	Label, Model No. (2552DD)

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols " ⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors.........	CD :	Ceramic Disk	PF :	Plastic Film	EL :	Electrolytic
Resistors...........	CF :	Carbon Film	CC :	Carbon Composition	MF :	Metal Film
	OMF :	Oxide Metal Film	VR :	Variable Resistor	FR :	Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C100	24794221	EL, 220μF, ±20%, 16V
C101	24794221	EL, 220μF, ±20%, 16V
C182	24232103	CD, 0.01μF, +80%, −20%
C183	24797229	EL, 2.2μF, ±20%, 50V
C185	24232103	CD, 0.01μF, +80%, −20%
C188	24797100	EL, 10μF, ±20%, 50V
C189	24232103	CD, 0.01μF, +80%, −20%
C190	24232103	CD, 0.01μF, +80%, −20%
C193	24797100	EL, 10μF, ±20%, 50V
C202	24795101	EL, 100μF, ±20%, 25V
C203	24232103	CD, 0.01μF, +80%, −20%
C204	24797220	EL, 22μF, ±20%, 50V
C205	24797478	EL, 0.47μF, ±20%, 50V
C206	24232103	CD, 0.01μF, +80%, −20%
C207	24794100	EL, 10μF, ±20%, 16V
C208	24436220	CD, 22pF
C209	24232103	CD, 0.01μF, +80%, −20%
C210	24797100	EL, 10μF, ±20%, 50V
C211	24232103	CD, 0.01μF, +80%, −20%
C212	24232103	CD, 0.01μF, +80%, −20%
C213	24232103	CD, 0.01μF, +80%, −20%
C214	24436470	CD, 47pF (2552DD)
C214	24436220	CD, 22pF (2853DD/7053DD)
C240	24538474	PF, 0.47μF
C301	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
C302	24212152	CD, 1500pF, ±10%
C303	24214221	CD, 220pF, ±10%, 500V
C304	24590102	PF, 1000pF
C305	24617915	EL, 1μF, ±10%, 50V (2552DD)
C305	24617912	EL, 2.2μF, ±10%, 50V (2853DD/7053DD)
C306	24667472	EL, 4700μF, ±20%, 25V (2552DD)
C306	24073059	EL, 3300μF, ±20%, 25V (2853DD/7053DD)
C307	24232103	CD, 0.01μF, +80%, −20%
C308	24693473	PF, 0.047μF, 100V
C310	24765102	EL, 1000μF, ±20%, 35V
C311	24214151	CD, 150pF, ±10%, 500V

Location No.	Part No.	Description
C313	24082057	PF, 0.22μF, 100V
C314	24591563	PF, 0.056μF
C315	24590104	PF, 0.1μF
C316	24538474	PF, 0.47μF
C317	24617926	EL, 220μF, ±20%, 16V
C318	24668221	EL, 220μF, ±20%, 35V
C319	24212102	CD, 1000pF, ±10%
C321	24591183	PF, 0.018μF
C322	24617912	EL, 2.2μF, ±10%, 50V
C323	24590683	PF, 0.068μF
C324	24538224	PF, 0.22μF
C325	24232103	CD, 0.01μF, +80%, −20%
C326	24538474	PF, 0.47μF
C341	24794101	EL, 100μF, ±20%, 16V
C378	24590104	PF, 0.1μF
C379	24232103	CD, 0.01μF, +80%, −20%
C380	24212102	CD, 1000pF, ±10%
C401	24617920	EL, 120μF, ±20%, 25V
C402	24353241	CD, 240pF
C403	24797339	EL, 3.3μF, ±20%, 50V
C405	24590183	PF, 0.018μF
C406	24590183	PF, 0.018μF
C407	24590273	PF, 0.027μF
C408	24794221	EL, 220μF, ±20%, 16V
C409	24232103	CD, 0.01μF, +80%, −20%
C410	24082261	PF, 5600pF, 100V
C412	24590182	PF, 1800pF
C413	24214391	CD, 390pF, ±10%, 500V
C414	24212471	CD, 470pF, ±10%
C416	24709100	EL, 10μF, ±20%, 200V
C417	24214821	CD, 820pF, ±10%, 500V
C421	24082673	PF, 0.47μF, 250V
C422	24829473	PF, 0.047μF, 400V
C423	24082673	PF, 0.47μF, 250V
C430	24538474	PF, 0.47μF
⚠C440	24082482	PF, 7000pF, ±3%, 1500V
C441	24214221	CD, 220pF, ±10%, 500V
C443	24214221	CD, 220pF, ±10%, 500V
C444	24082517	PF, 5100pF, ±3%, 1800V
C445	24095903	PF, 0.056μF, ±10%, 250V
C446	24095887	PF, 0.01μF, ±3%, 630V

Location No.	Part No.	Description
C447	24700479	EL, 4.7μF, ±20%, 250V
C448	24640962	EL, 33μF, ±20%, 200V
C449	24667102	EL, 1000μF, ±20%, 25V
C450	24794471	EL, 470μF, ±20%, 16V
⚠C463	24212222	CD, 2200pF, ±10%
C464	24082712	PF, 1.5μF, 250V
C466	24082669	PF, 0.33μF, 250V
C470	24794220	EL, 22μF, ±20%, 16V
C471	24538474	PF, 0.47μF
C473	24538474	PF, 0.47μF
C501	24794331	EL, 330μF, ±20%, 16V
C502	24474181	CD, 180pF, ±10%
C503	24436181	CD, 180pF
C505	24590273	PF, 0.027μF
C507	24590103	PF, 0.01μF
C508	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
C509	24353330	CD, 33pF
C510	24232103	CD, 0.01μF, +80%, -20%
C511	24232103	CD, 0.01μF, +80%, -20%
C512	24353220	CD, 22pF
C513	24232103	CD, 0.01μF, +80%, -20%
C515	24797220	EL, 22μF, ±20%, 50V
C516	24590104	PF, 0.1μF
C517	24590104	PF, 0.1μF
C518	24232103	CD, 0.01μF, +80%, -20%
C520	24797478	EL, 0.47μF, ±20%, 50V
C521	24206478	EL, 0.47μF, 50V
C522	24206478	EL, 0.47μF, 50V
C523	24206478	EL, 0.47μF, 50V
C524	24232103	CD, 0.01μF, +80%, -20%
C525	24436820	CD, 82pF
C526	24436820	CD, 82pF
C527	24436820	CD, 82pF
C531	24436561	CD, 560pF
C532	24436561	CD, 560pF
C533	24436681	CD, 680pF
C534	24794471	EL, 470μF, ±20%, 16V
C536	24797479	EL, 4.7μF, ±20%, 50V
C626	24797470	EL, 47μF, ±20%, 50V
C633	24538124	PF, 0.12μF
C634	24538124	PF, 0.12μF
C636	24797229	EL, 2.2μF, ±20%, 50V
C637	24667470	EL, 47μF, ±20%, 25V
C638	24667470	EL, 47μF, ±20%, 25V
C639	24796101	EL, 100μF, ±20%, 35V
C641	24795470	EL, 47μF, ±20%, 25V
C642	24797229	EL, 2.2μF, ±20%, 50V
C643	24797479	EL, 4.7μF, ±20%, 50V
C644	24667102	EL, 1000μF, ±20%, 25V
C646	24667102	EL, 1000μF, ±20%, 25V
C660	24797478	EL, 0.47μF, ±20%, 50V
C674	24590102	PF, 1000pF
C677	24590102	PF, 1000pF (2552DD)
C684	24232103	CD, 0.01μF, +80%, -20% (2853DD/7053DD)
C685	24232103	CD, 0.01μF, +80%, -20% (2853DD/7053DD)
⚠C801	24082373	PF, 0.1μF, ±20%, AC250V
⚠C802	24094656	CD, 2200pF, ±20%, AC400V
⚠C803	24094656	CD, 2200pF, ±20%, AC400V
⚠C804	24082373	PF, 0.1μF, ±20%, AC250V
C807	24092281	CD, 4700pF, ±20%, AC250V
C808	24092281	CD, 4700pF, ±20%, AC250V

Location No.	Part No.	Description
C809	24086037	EL, 270μF, ±20%, 400V
C810	24667331	EL, 330μF, ±20%, 25V
C811	24214471	CD, 470pF, ±10%, 500V
C812	24676220	EL, 22μF, ±20%, 100V
C813	24590222	PF, 2200pF
C814	24214471	CD, 470pF, ±10%, 500V
C815	24095931	PF, 2200pF, 1250V
C816	24795470	EL, 47μF, ±20%, 25V
C817	24092341	CD, 470pF, ±10%, 2kV
C818	24214471	CD, 470pF, ±10%, 500V
C819	24797470	EL, 47μF, ±20%, 50V
C820	24794470	EL, 47μF, ±20%, 16V
C827	24794471	EL, 470μF, ±20%, 16V
C828	24212101	CD, 100pF, ±10%
C829	24796222	EL, 2200μF, ±20%, 35V
C830	24092337	CD, 220pF, ±10%, 2kV
C831	24086953	EL, 220μF, ±20%, 160V
C833	24797100	EL, 10μF, ±20%, 50V
C835	24797479	EL, 4.7μF, ±20%, 50V
C836	24797100	EL, 10μF, ±20%, 50V
C837	24797100	EL, 10μF, ±20%, 50V
C840	24214471	CD, 470pF, ±10%, 500V
C846	24590104	PF, 0.1μF
C849	24214471	CD, 470pF, ±10%, 500V
C892	24794470	EL, 47μF, ±20%, 16V
C901	24700100	EL, 10μF, ±20%, 250V
C902	24095931	PF, 2200pF, 1250V
CA01	24474101	CD, 100pF, ±10%
CA02	24474101	CD, 100pF, ±10%
CA03	24474101	CD, 100pF, ±10%
CA10	24212102	CD, 1000pF, ±10%
CA11	24212102	CD, 1000pF, ±10%
CA12	24794471	EL, 470μF, ±20%, 16V
CA13	24794100	EL, 10μF, ±20%, 16V
CA15	24590104	PF, 0.1μF
CA16	24797100	EL, 10μF, ±20%, 50V
CA21	24232103	CD, 0.01μF, +80%, -20%
CA22	24797010	EL, 1μF, ±20%, 50V
CA29	24232103	CD, 0.01μF, +80%, -20%
CA31	24473300	CD, 30pF
CA32	24473300	CD, 30pF
CA33	24212102	CD, 1000pF, ±10%
CA90	24538474	PF, 0.47μF
CA91	24212102	CD, 1000pF, ±10%
CA92	24590104	PF, 0.1μF
CB01	24474101	CD, 100pF, ±10% (2552DD)
CB01	24794470	EL, 47μF, ±20%, 16V (2853DD/7053DD)
CB09	24794330	EL, 33μF, ±20%, 16V
CB10	24797010	EL, 1μF, ±20%, 50V
CB11	24436181	CD, 180pF
CB12	24212561	CD, 560pF, ±10%
CB13	24212472	CD, 4700pF, ±10%
CD01	24796220	EL, 22μF, ±20%, 35V
CD11	24676339	EL, 3.3μF, ±20%, 100V
CF02	24797100	EL, 10μF, ±20%, 50V
CF03	24232103	CD, 0.01μF, +80%, -20%
CF05	24212102	CD, 1000pF, ±10%
CF06	24353150	CD, 15pF
CF07	24232103	CD, 0.01μF, +80%, -20%
CF08	24590104	PF, 0.1μF
CF09	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CF10	24794330	EL, 33μF, ±20%, 16V

Location No.	Part No.	Description
CF11	24232103	CD, 0.01μF, +80%, −20%
CF16	24353080	CD, 8pF, ±0.25pF
CF17	24797100	EL, 10μF, ±20%, 50V
CF18	24590104	PF, 0.1μF
CF19	24794101	EL, 100μF, ±20%, 16V
CF20	24473220	CD, 22pF
CG04	24797010	EL, 1μF, ±20%, 50V
CG05	24794220	EL, 22μF, ±20%, 16V
CG07	24797010	EL, 1μF, ±20%, 50V
CG08	24797010	EL, 1μF, ±20%, 50V
CG09	24797010	EL, 1μF, ±20%, 50V
CG10	24212102	CD, 1000pF, ±10%
CG12	24590273	PF, 0.027μF
CG13	24232103	CD, 0.01μF, +80%, −20%
CG14	24794101	EL, 100μF, ±20%, 16V
CG15	24590822	PF, 8200pF
CG16	24797010	EL, 1μF, ±20%, 50V
CG17	24590273	PF, 0.027μF
CG18	24590822	PF, 8200pF
CG19	24794100	EL, 10μF, ±20%, 16V
CG20	24794100	EL, 10μF, ±20%, 16V
CG21	24794100	EL, 10μF, ±20%, 16V
CG22	24538224	PF, 0.22μF
CG23	24590104	PF, 0.1μF
CG24	24590104	PF, 0.1μF
CG25	24797100	EL, 10μF, ±20%, 50V
CG26	24797100	EL, 10μF, ±20%, 50V
CG27	24797478	EL, 0.47μF, ±20%, 50V
CG28	24797478	EL, 0.47μF, ±20%, 50V
CG29	24232103	CD, 0.01μF, +80%, −20%
CG30	24232103	CD, 0.01μF, +80%, −20%
CG31	24232103	CD, 0.01μF, +80%, −20%
CM09	24232103	CD, 0.01μF, +80%, −20%
CN01	24473270	CD, 27pF
CN02	24473270	CD, 27pF
CN04	24436101	CD, 100pF
CN13	24474121	CD, 120pF, ±10%
CN14	24474102	CD, 1000pF, ±10%
CN16	24590103	PF, 0.01μF
CN17	24232103	CD, 0.01μF, +80%, −20%
CV01	24797100	EL, 10μF, ±20%, 50V
CV02	24206010	EL, 1μF, 50V
CV03	24797100	EL, 10μF, ±20%, 50V
CV04	24206010	EL, 1μF, 50V
CV05	24232103	CD, 0.01μF, +80%, −20%
CV06	24797100	EL, 10μF, ±20%, 50V
CV07	24797010	EL, 1μF, ±20%, 50V
CV08	24797010	EL, 1μF, ±20%, 50V
CV09	24232103	CD, 0.01μF, +80%, −20%
CV10	24797010	EL, 1μF, ±20%, 50V
CV11	24797010	EL, 1μF, ±20%, 50V
CV12	24797100	EL, 10μF, ±20%, 50V
CV14	24232103	CD, 0.01μF, +80%, −20%
CV15	24797100	EL, 10μF, ±20%, 50V
CV16	24794100	EL, 10μF, ±20%, 16V
CV17	24794100	EL, 10μF, ±20%, 16V
CV18	24797220	EL, 22μF, ±20%, 50V
CV19	24232103	CD, 0.01μF, +80%, −20%
CV20	24212102	CD, 1000pF, ±10%
CV21	24212102	CD, 1000pF, ±10%
CV23	24793471	EL, 470μF, ±20%, 10V
CV24	24212102	CD, 1000pF, ±10%
CV25	24212102	CD, 1000pF, ±10%
CV26	24212102	CD, 1000pF, ±10%

Location No.	Part No.	Description
CV27	24212102	CD, 1000pF, ±10%
CV31	24793471	EL, 470μF, ±20%, 10V
CV32	24797101	EL, 100μF, ±20%, 50V
CV33	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CV34	24797100	EL, 10μF, ±20%, 50V
CV35	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CV36	24797100	EL, 10μF, ±20%, 50V
CV37	24212471	CD, 470pF, ±10%
CV38	24212471	CD, 470pF, ±10%
CV39	24212471	CD, 470pF, ±10%
CV40	24212471	CD, 470pF, ±10%
CV41	24232103	CD, 0.01μF, +80%, −20%
CV46	24794331	EL, 330μF, ±20%, 16V
CV72	24794220	EL, 22μF, ±20%, 16V
CV73	24794220	EL, 22μF, ±20%, 16V
CV74	24436470	CD, 47pF
CW01	24797100	EL, 10μF, ±20%, 50V
CW02	24232103	CD, 0.01μF, +80%, −20%
CW05	24232103	CD, 0.01μF, +80%, −20%
CX02	24797478	EL, 0.47μF, ±20%, 50V
CX03	24797478	EL, 0.47μF, ±20%, 50V
CX04	24797478	EL, 0.47μF, ±20%, 50V
CX05	24206010	EL, 1μF, 50V
CX06	24206010	EL, 1μF, 50V
CX07	24206010	EL, 1μF, 50V
CX08	24797100	EL, 10μF, ±20%, 50V
CX09	24797010	EL, 1μF, ±20%, 50V
CX10	24797010	EL, 1μF, ±20%, 50V
CX11	24797010	EL, 1μF, ±20%, 50V

RESISTORS

Location No.	Part No.	Description
R208	24366432	CF, 4300 ohm
R211	24366473	CF, 47k ohm
R212	24366103	CF, 10k ohm
R213	24366103	CF, 10k ohm
R214	24366182	CF, 1800 ohm
R215	24366152	CF, 1500 ohm
R216	24366333	CF, 33k ohm
R218	24366472	CF, 4700 ohm
R219	24366472	CF, 4700 ohm
R220	24366473	CF, 47k ohm
R221	24366473	CF, 47k ohm
R222	24366473	CF, 47k ohm
R223	24366472	CF, 4700 ohm
R224	24366682	CF, 6800 ohm
R228	24366182	CF, 1800 ohm
R231	24366102	CF, 1k ohm
R233	24366821	CF, 820 ohm
R237	24366471	CF, 470 ohm
R242	24366183	CF, 18k ohm (2552DD)
R242	24366153	CF, 15k ohm (2853DD/7053DD)
R243	24366103	CF, 10k ohm
R244	24366203	CF, 20k ohm
R245	24366622	CF, 6200 ohm
R246	24366103	CF, 10k ohm
R247	24366101	CF, 100 ohm
R252	24066596	VR, 500 ohm, 1/10W
R253	24066596	VR, 500 ohm, 1/10W
R255	24066601	VR, 20k ohm, 1/10W
R260	24366333	CF, 33k ohm
R261	24366153	CF, 15k ohm
R262	24366153	CF, 15k ohm

Location No.	Part No.	Description
R266	24366153	CF, 15k ohm
R267	24366153	CF, 15k ohm
R268	24366184	CF, 180k ohm
R270	24366822	CF, 8200 ohm
R283	24366101	CF, 100 ohm
R299	24366681	CF, 680 ohm
R301	24366221	CF, 220 ohm
R302	24366274	CF, 270k ohm
R303	24366363	CF, 36k ohm (2552DD)
R303	24366563	CF, 56k ohm (2853DD/7053DD)
R304	24366513	CF, 51k ohm (2552DD)
R304	24366243	CF, 24k ohm (2853DD/7053DD)
R305	24366151	CF, 150 ohm
R306	24366563	CF, 56k ohm (2552DD)
R306	24366473	CF, 47k ohm (2853DD/7053DD)
R307	24366394	CF, 390k ohm (2552DD)
R307	24366474	CF, 470k ohm (2853DD/7053DD)
R308	24366102	CF, 1k ohm
R309	24383471	OMF, 470 ohm, 2W (2552DD)
R309	24383511	OMF, 510 ohm, 2W (2853DD/7053DD)
R311	24366473	CF, 47k ohm
R312	24366204	CF, 200k ohm
R313	24366104	CF, 100k ohm
R314	24366105	CF, 1M ohm
R315	24366155	CF, 1.5M ohm
R316	24366154	CF, 150k ohm
R317	24366103	CF, 10k ohm
R318	24366101	CF, 100 ohm
R319	24366101	CF, 100 ohm
R320	24366101	CF, 100 ohm
R321	24366102	CF, 1k ohm
R322	24321159	MF, 1.5 ohm, 1/2W
R323	24322688	MF, 0.68 ohm, 1W
⚠R327	24339479	MF, 4.7 ohm, 2W
R329	24366223	CF, 22k ohm
R334	24383751	OMF, 750 ohm, 2W
R336	24383271	OMF, 270 ohm, 2W (2552DD only)
R340	24382391	OMF, 390 ohm, 1W (2552DD)
R340	24382271	OMF, 270 ohm, 1W (2853DD/7053DD)
R341	24366182	CF, 1800 ohm
R342	24366103	CF, 10k ohm
R342	24366562	CF, 5600 ohm
R343	24310109	MF, 1.0 ohm, 1/2W
R344(U902A)	24366392	CF, 3900 ohm
R344(U903)	24366392	CF, 3900 ohm
R345	24366103	CF, 10k ohm
R346	24366103	CF, 10k ohm
R349	24366153	CF, 15k ohm
R402	24366273	CF, 27k ohm
R403	24366272	CF, 2700 ohm
R404	24552472	OMF, 4700 ohm, 1/2W
R405	24366431	CF, 430 ohm
R406	24366331	CF, 330 ohm (2552DD)
R406	24366221	CF, 220 ohm (2853DD/7053DD)
R407	24366151	CF, 150 ohm (2552DD)
R407	24366131	CF, 130 ohm (2853DD/7053DD)
R408	24366562	CF, 5600 ohm
R409	24366204	CF, 200k ohm

Location No.	Part No.	Description
R410	24552472	OMF, 4700 ohm, 1/2W
R411	24366561	CF, 560 ohm
R413	24366151	CF, 150 ohm
R415	24382272	OMF, 2700 ohm, 1W
R416	24510562	Cement, 5600 ohm, 5W
R421	24366104	CF, 100k ohm
R430	24366272	CF, 2700 ohm
R431	24366102	CF, 1k ohm
R432	24366473	CF, 47k ohm
R433	24366333	CF, 33k ohm
R434	24366123	CF, 12k ohm
R440	24366472	CF, 4700 ohm
R442	24382102	OMF, 1k ohm, 1W
R444	24322398	MF, 0.39 ohm, 1W
R446	24533151	FR, 150 ohm, 2W
⚠R448	24338338	MF, 0.33 ohm, 1W
R452	24069547	VR, 5k ohm, 0.08W, CC
R470	24322568	MF, 0.56 ohm, 1W
R471	24552101	OMF, 100 ohm, 1/2W
R472	24376393	CF, 39k ohm, 1/2W
R474	24366331	CF, 330 ohm
R475	24366102	CF, 1k ohm
R477	24366153	CF, 15k ohm
R501	24366561	CF, 560 ohm
R502	24366334	CF, 330k ohm
R504	24366471	CF, 470 ohm
R507	24366822	CF, 8200 ohm
R508	24366561	CF, 560 ohm
R509	24366223	CF, 22k ohm
R511	24366202	CF, 2k ohm
R512	24366182	CF, 1800 ohm
R513	24366122	CF, 1200 ohm
R514	24366562	CF, 5600 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R518	24366475	CF, 4.7M ohm
R520	24366102	CF, 1k ohm
R521	24366562	CF, 5600 ohm
R522	24366185	CF, 1.8M ohm
R527	24366154	CF, 150k ohm
R528	24366221	CF, 220 ohm
R529	24366681	CF, 680 ohm
R530	24366472	CF, 4700 ohm
R531	24366472	CF, 4700 ohm
R532	24366122	CF, 1200 ohm
R533	24366331	CF, 330 ohm
R534	24366331	CF, 330 ohm
R535	24366331	CF, 330 ohm
R536	24366152	CF, 1500 ohm
R537	24366152	CF, 1500 ohm
R538	24366152	CF, 1500 ohm
R540	24366222	CF, 2200 ohm
R541	24366222	CF, 2200 ohm
R543	24366222	CF, 2200 ohm
R547	24552560	OMF, 56 ohm, 1/2W
R548	24366101	CF, 100 ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24066600	VR, 10k ohm, 1/10W
R558	24066600	VR, 10k ohm, 1/10W
R559	24066600	VR, 10k ohm, 1/10W
R561	24366270	CF, 27 ohm
R562	24366680	CF, 68 ohm (2552DD)
R562	24366270	CF, 27 ohm (2853DD/7053DD)

Location No.	Part No.	Description
R563	24366100	CF, 10 ohm
R564	24366181	CF, 180 ohm
R565	24366181	CF, 180 ohm
R591	24383153	OMF, 15k ohm, 2W
R592	24383153	OMF, 15k ohm, 2W
R593	24383153	OMF, 15k ohm, 2W
R633	24366229	CF, 2.2 ohm
R634	24366229	CF, 2.2 ohm
R635	24366333	CF, 33k ohm
R636	24366333	CF, 33k ohm
R641	24366103	CF, 10k ohm
R642	24366101	CF, 100 ohm
R643	24552331	OMF, 330 ohm, 1/2W (2853DD/7053DD only)
R644	24552331	OMF, 330 ohm, 1/2W (2853DD/7053DD only)
R662	24366103	CF, 10k ohm
R663	24366104	CF, 100k ohm
R666	24366103	CF, 10k ohm
R667	24366103	CF, 10k ohm
R668	24366103	CF, 10k ohm
R670	24366222	CF, 2200 ohm
R673	24366332	CF, 3300 ohm
R674	24366102	CF, 1k ohm
R675	24366332	CF, 3300 ohm
R681	24366222	CF, 2200 ohm
R687	24366103	CF, 10k ohm
R688	24366104	CF, 100k ohm
R689	24366103	CF, 10k ohm
⚠R801	24004914	Metal-Glazed Resistor, 5.6M ohm, 1/2W
R803	24382683	OMF, 68k ohm, 1W
R805	24366101	CF, 100 ohm
R810	24366122	CF, 1200 ohm
R812	24552103	OMF, 10k ohm, 1/2W
R813	24366272	CF, 2700 ohm
R815	24552102	OMF, 1k ohm, 1/2W
R816	24382180	OMF, 18 ohm, 1W
R817	24322278	MF, 0.27 ohm, 1W
R818	24321829	MF, 8.2 ohm, 1/2W
R819	24366472	CF, 4700 ohm
R820	24366101	CF, 100 ohm
R825	24366472	CF, 4700 ohm
R832	24321228	MF, 0.22 ohm, 1/2W
R833	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R842	24366681	CF, 680 ohm
R843	24366821	CF, 820 ohm
R848	24552332	OMF, 3300 ohm, 1/2W
R860	24366681	CF, 680 ohm
R861	24366221	CF, 220 ohm
R863	24366102	CF, 1k ohm
R865	24366681	CF, 680 ohm
R866	24366471	CF, 470 ohm
R867	24366103	CF, 10k ohm
R868	24366472	CF, 4700 ohm
R870	24382223	OMF, 22k ohm, 1W
R872	24569339	Cement, 3.3 ohm, 10W
⚠R878	24531560	FR, 56 ohm, 1/2W
R879	24366472	CF, 4700 ohm
⚠R884	24531120	FR, 12 ohm, 1/2W
⚠R890	24019340	PTC Thermistor, 18 ohm, 290V
R893	24366103	CF, 10k ohm

Location No.	Part No.	Description
R901	24552272	OMF, 2700 ohm, 1/2W
R902	24552272	OMF, 2700 ohm, 1/2W
R903	24552272	OMF, 2700 ohm, 1/2W
⚠R920	24000907	FR, 3.9 ohm, 1W (2552DD)
⚠R920	24000929	FR, 1,5 ohm, 2W (2853DD/7053DD)
RA01	24366223	CF, 22k ohm
RA02	24366473	CF, 47k ohm
RA03	24366103	CF, 10k ohm
RA05	24366103	CF, 10k ohm
RA06	24366103	CF, 10k ohm
RA07	24366222	CF, 2200 ohm
RA10	24366473	CF, 47k ohm
RA11	24366102	CF, 1k ohm
RA12	24366103	CF, 10k ohm
RA13	24366103	CF, 10k ohm
RA16	24366101	CF, 100 ohm
RA18	24366101	CF, 100 ohm
RA19	24366102	CF, 1k ohm
RA20	24366331	CF, 330 ohm
RA21	24366331	CF, 330 ohm
RA22	24366103	CF, 10k ohm
RA23	24366473	CF, 47k ohm
RA24	24366162	CF, 1600 ohm
RA25	24366162	CF, 1600 ohm
RA26	24366162	CF, 1600 ohm
RA27	24366223	CF, 22k ohm
RA28	24366223	CF, 22k ohm
RA29	24366562	CF, 5600 ohm
RA32	24366223	CF, 22k ohm
RA33	24366103	CF, 10k ohm
RA34	24366223	CF, 22k ohm
RA35	24366102	CF, 1k ohm
RA36	24366223	CF, 22k ohm
RA40	24366223	CF, 22k ohm
RA41	24366223	CF, 22k ohm
RA60	24366392	CF, 3900 ohm
RA61	24366102	CF, 1k ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA68	24366473	CF, 47k ohm
RA69	24366223	CF, 22k ohm
RA81	24366103	CF, 10k ohm
RA84	24366392	CF, 3900 ohm
RA85	24366392	CF, 3900 ohm
RA86	24366472	CF, 4700 ohm
RA87	24366472	CF, 4700 ohm
RA90	24366391	CF, 390 ohm
RA92	24366102	CF, 1k ohm
RA94	24366392	CF, 3900 ohm
RA95	24366392	CF, 3900 ohm
RA97	24366332	CF, 3300 ohm
RA98	24366682	CF, 6800 ohm
RA99	24366203	CF, 20k ohm
RB01	24366103	CF, 10k ohm (2552DD)
RB01	24366470	CF, 47 ohm (2853DD/7053DD)
RB02	24366332	CF, 3300 ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366332	CF, 3300 ohm
RB06	24366333	CF, 33k ohm
RB10	24366182	CF, 1800 ohm
RB11	24366471	CF, 470 ohm
RB12	24366333	CF, 33k ohm

Location No.	Part No.	Description
RB13	24366564	CF, 560k ohm
RB14	24366123	CF, 12k ohm
RB15	24366392	CF, 3900 ohm
RB16	24366392	CF, 3900 ohm
RB19	24366223	CF, 22k ohm
⚠RD01	24000211	FR, 15 ohm, 1/2W
RD02	24323229	MF, 2.2 ohm, 2W
RD03	24366562	CF, 5600 ohm
RD04	24552102	OMF, 1k ohm, 1/2W
RD05	24552332	OMF, 3300 ohm, 1/2W
RD06	24366242	CF, 2400 ohm
RD07	24366273	CF, 27k ohm
RD08	24366114	CF, 110k ohm
RD09	24366153	CF, 15k ohm
RD10	24366153	CF, 15k ohm
RF01	24366332	CF, 3300 ohm
RF03	24366102	CF, 1k ohm
RF04	24366273	CF, 27k ohm
RF05	24366472	CF, 4700 ohm
RF06	24366103	CF, 10k ohm
RF07	24366103	CF, 10k ohm
RF08	24366101	CF, 100 ohm
RF09	24366102	CF, 1k ohm
RF12	24366103	CF, 10k ohm
RF13	24366101	CF, 100 ohm
RF14	24366101	CF, 100 ohm
RF15	24366392	CF, 3900 ohm
RF16	24366103	CF, 10k ohm
RF17	24366332	CF, 3300 ohm
RF18	24366682	CF, 6800 ohm
RF19	24366101	CF, 100 ohm
RF20	24366102	CF, 1k ohm
RF21	24366102	CF, 1k ohm
RF22	24366101	CF, 100 ohm
RF23	24366102	CF, 1k ohm
RG03	24366101	CF, 100 ohm
RG04	24366101	CF, 100 ohm
RG10	24366362	CF, 3600 ohm
RG11	24366362	CF, 3600 ohm
RG12	24366272	CF, 2700 ohm
RG13	24366272	CF, 2700 ohm
RG14	24366223	CF, 22k ohm
RG15	24366223	CF, 22k ohm
RM26	24366153	CF, 15k ohm
RN01	24366101	CF, 100 ohm
RN02	24366152	CF, 1500 ohm
RN08	24366103	CF, 10k ohm
RN11	24366103	CF, 10k ohm
RN12	24366122	CF, 1200 ohm
RN13	24366103	CF, 10k ohm
RN18	24366473	CF, 47k ohm
RN20	24366103	CF, 10k ohm
RN21	24366473	CF, 47k ohm
RN22	24366473	CF, 47k ohm
RN24	24366332	CF, 3300 ohm
RN34	24366104	CF, 100k ohm
RN35	24366561	CF, 560 ohm
RV01	24366101	CF, 100 ohm
RV02	24366102	CF, 1k ohm
RV03	24366472	CF, 4700 ohm
RV04	24366472	CF, 4700 ohm
RV05	24366101	CF, 100 ohm
RV06	24366102	CF, 1k ohm
RV07	24366101	CF, 100 ohm

Location No.	Part No.	Description
RV08	24366102	CF, 1k ohm
RV10	24366101	CF, 100 ohm
RV11	24366472	CF, 4700 ohm
RV12	24366472	CF, 4700 ohm
RV13	24366101	CF, 100 ohm
RV16	24366104	CF, 100k ohm
RV17	24366223	CF, 22k ohm
RV18	24366473	CF, 47k ohm
RV21	24366101	CF, 100 ohm
RV22	24366101	CF, 100 ohm
RV23	24366561	CF, 560 ohm
RV24	24552331	OMF, 330 ohm, 1/2W
⚠RV25	24019261	FR, 47 ohm, ±2%, 1/4W
RV26	24366222	CF, 2200 ohm
RV27	24366104	CF, 100k ohm
RV28	24366104	CF, 100k ohm
RV29	24366221	CF, 220 ohm
RV30	24366152	CF, 1500 ohm
RV31	24366750	CF, 75 ohm
RV32	24366750	CF, 75 ohm
RV34	24366151	CF, 150 ohm
RV36	24366750	CF, 75 ohm
RV37	24366104	CF, 100k ohm
RV38	24366104	CF, 100k ohm
RV39	24366750	CF, 75 ohm
RV40	24366750	CF, 75 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366620	CF, 62 ohm
RV44	24366620	CF, 62 ohm
RV45	24366620	CF, 62 ohm
RV47	24366101	CF, 100 ohm
RV49	24366102	CF, 1k ohm
RV60	24552391	OMF, 390 ohm, 1/2W
RV61	24366130	CF, 13 ohm
RV62	24366130	CF, 13 ohm
RV63	24366130	CF, 13 ohm
RV64	24366104	CF, 100k ohm
RV65	24366104	CF, 100k ohm
RV66	24366104	CF, 100k ohm
RV67	24366104	CF, 100k ohm
RV71	24366750	CF, 75 ohm
RV72	24366103	CF, 10k ohm
RV73	24366750	CF, 75 ohm
RV74	24366472	CF, 4700 ohm
RV75	24366472	CF, 4700 ohm
RV76	24366101	CF, 100 ohm
RV77	24366152	CF, 1500 ohm
RV78	24366103	CF, 10k ohm
RV79	24366750	CF, 75 ohm
RV91	24366102	CF, 1k ohm
RW01	24366223	CF, 22k ohm
RW02	24366333	CF, 33k ohm
RW03	24366103	CF, 10k ohm
RW04	24366223	CF, 22k ohm
RW05	24366333	CF, 33k ohm
RW06	24366103	CF, 10k ohm
RW07	24552561	OMF, 560 ohm, 1/2W
RW08	24366103	CF, 10k ohm
RW09	24366123	CF, 12k ohm
RW10	24366103	CF, 10k ohm
RW11	24366103	CF, 10k ohm
RW12	24366123	CF, 12k ohm
RW13	24366103	CF, 10k ohm

Location No.	Part No.	Description
RW14	24366123	CF, 12k ohm
RW15	24366123	CF, 12k ohm
RW25	24366221	CF, 220 ohm
RW26	24366221	CF, 220 ohm
RX01	24366102	CF, 1k ohm
RX02	24366101	CF, 100 ohm
RX03	24366101	CF, 100 ohm
RX04	24366103	CF, 10k ohm
RX05	24366103	CF, 10k ohm
RX06	24366332	CF, 3300 ohm
RX07	24366122	CF, 1200 ohm
RX08	24366122	CF, 1200 ohm
RX09	24366122	CF, 1200 ohm
RX10	24366101	CF, 100 ohm
RX12	24366102	CF, 1k ohm
RX13	24366332	CF, 3300 ohm
RX14	24366103	CF, 10k ohm
RX15	24366473	CF, 47k ohm
RX19	24366201	CF, 200 ohm
RX20	24366152	CF, 1500 ohm
RX21	24366201	CF, 200 ohm
RX22	24366201	CF, 200 ohm
RX27	24366102	CF, 1k ohm

COILS & TRANSFORMERS

Location No.	Part No.	Description
L202	23289390	Coil, Peaking, TRF4390AF
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23289101	Coil, Peaking, TRF4101AF
L315	23238714	Coil, Peaking, TRF4100AJ
L405	23221685	Coil, Choke, TLN3193
L412	23221684	Coil, Choke, TLN3191D
L414	23103859	Coil (Ferrite Bead), TEM2011
L421	23248116	Coil, Choke, TLN3368D
L422	23248122	Coil, Choke, TLN3384D
L441	23233948	Coil, Linearity, TLN2137G
⚠L462	------------	DY, Supplied with V901
L503	23238714	Coil, Peaking, TRF4100AJ
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L590	23289100	Coil, Peaking, TRF4100AF
L810	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L821	23222694	Coil, Width, TLN2026
L823	23221747	Coil, Choke, TRF9253D
L826	23248073	Coil, Choke, TLN3299D
L829	23103859	Coil (Ferrite Bead), TEM2011
L842	23103859	Coil (Ferrite Bead), TEM2011
L866	23289229	Coil, Peaking, TRF42R2AF
L880	23222694	Coil, Width, TLN2026
⚠L901	23200275	Coil, Degaussing, TSB-2329BR (2552DD)
⚠L901	23200276	Coil, Degaussing, TSB-2330BR (2853DD/7053DD)
LA01	23289109	Coil, Peaking, TRF41R0AF
LA12	23221803	Coil, Choke, TLN3040D
LB01	23262001	Coil, IF, TRF1166D
LD02	23221896	Coil, Choke, TLN3061
LF02	23238712	Coil, Peaking, TRF4150AJ
LF03	23238720	Coil, Peaking, TRF4339AJ
LF04	23238562	Coil, Peaking, TRF4109AJ
LF05	23238714	Coil, Peaking, TRF4100AJ
LF06	23238714	Coil, Peaking, TRF4100AJ
LF07	23238714	Coil, Peaking, TRF4100AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238506	Coil, Peaking, TRF4229AJ
LF10	23238506	Coil, Peaking, TRF4229AJ
LF11	23103859	Coil (Ferrite Bead), TEM2011
LF12	23238506	Coil, Peaking, TRF4229AJ
LF13	23238714	Coil, Peaking, TRF4100AJ
LN01	23238713	Coil, Peaking, TRF4120AJ
LN03	23238710	Coil, Peaking, TRF4220AJ
LV01	23289220	Coil, Peaking, TRF4220AF
LV03	23289270	Coil, Peaking, TRF4270AF
⚠T401	23224336	Transformer, Horiz. Drive, TLN1083
⚠T461	23236454	Transformer, Flyback, TFB4117AR
⚠T801	23211670	Line, Filter, TRF3164G
⚠T803	23217214	Transformer, Converter, TPW3283AR

SEMICONDUCTORS

Location No.	Part No.	Description
Q205	23314794	Transistor, 2PC1815Y
Q208	23314794	Transistor, 2PC1815Y
Q213	23314794	Transistor, 2PC1815Y
Q240	23314794	Transistor, 2PC1815Y
Q301	B0378560	IC, TA8427K
Q302	B0384683	IC, TA8859AP
Q340(U902A)	23314794	Transistor, 2PC1815Y
Q340(U903)	23314791	Transistor, 2PA1015Y
Q402	A678971D	Transistor, 2SC1569 FA-5
⚠Q404	A6872801	Transistor, 2SD2253(FA)
Q408	23319314	IC, UPC2412HF
Q430	23314794	Transistor, 2PC1815Y
Q470	A6547250	Transistor, 2SA1320
Q501	B0384303	IC, TA8808BN
Q505	A6363200	Transistor, 2SC3619
Q507	A6363200	Transistor, 2SC3619
Q509	A6363200	Transistor, 2SC3619
Q510	A6330059	Transistor, 2SC2482(C)
Q511	23314791	Transistor, 2PA1015Y
Q604	23314791	Transistor, 2PA1015Y
Q605	B0376856	IC, TA8211AH
Q608	A6010040	Transistor, RN2004
Q621	A6342206	Transistor, 2SC2878-A(TE
Q622	A6342206	Transistor, 2SC2878-A(TE
Q671	A6342206	Transistor, 2SC2878-A(TE
Q673	A6342206	Transistor, 2SC2878-A(TE
Q801	23904247	IC, STR-S6708
Q802	23314141	Transistor, 2SC3852
Q826	A8643108	Photo Coupler, TLP621(GR-LF
Q827	A6907751	IC, S1854
Q828	23314794	Transistor, 2PC1815Y
Q831	23314794	Transistor, 2PC1815Y
Q835	23318299	IC, L78MR05
Q836	23314791	Transistor, 2PA1015Y
Q861	23314141	Transistor, 2SC3852
Q870	A6333346	Transistor, 2SC2655-Y(C)
Q871	23314794	Transistor, 2PC1815Y
Q890	23314141	Transistor, 2SC3852
QA01	23905276	IC, 85332A-130S
QA02	23904665	IC, NM24C04EN
QA10	23319935	IC, MM1096BS
QB01	23314794	Transistor, 2PC1815Y
QB02	23314794	Transistor, 2PC1815Y
QB11	23314794	Transistor, 2PC1815Y
QB12	23314791	Transistor, 2PA1015Y
QD01	A6625365	Transistor, 2SB688-O(BS)

Location No.	Part No.	Description
QD02	23314794	Transistor, 2PC1815Y
QD03	23314794	Transistor, 2PC1815Y
QF02	23904779	IC, SAA5281P/E
QF04	23314794	Transistor, 2PC1815Y
QF05	23314794	Transistor, 2PC1815Y
QF06	23314794	Transistor, 2PC1815Y
QG01	B0385640	IC, TA1216N
QN02	23314791	Transistor, 2PA1015Y
QN03	23314791	Transistor, 2PA1015Y
QN07	A6000020	Transistor, RN1002
QN08	23314794	Transistor, 2PC1815Y
QN15	A6342206	Transistor, 2SC2878-A(TE
QV01	B0383720	IC, TA8747N
QV03	A6342206	Transistor, 2SC2878-A(TE
QV04	23314791	Transistor, 2PA1015Y
QV05	23314791	Transistor, 2PA1015Y
QV06	23314791	Transistor, 2PA1015Y
QV07	23314794	Transistor, 2PC1815Y
QW01	23314791	Transistor, 2PA1015Y
QW02	23314791	Transistor, 2PA1015Y
QW03	23314791	Transistor, 2PA1015Y
QW04	23314791	Transistor, 2PA1015Y
QX01	23119139	IC, AN5862K
QX02	A6534077	Transistor, 2SA1015-GR
QX03	A6734585	Transistor, 2SC752(G)TM-O
QX04	23314794	Transistor, 2PC1815Y
QX05	23314794	Transistor, 2PC1815Y
QX06	23314794	Transistor, 2PC1815Y
QX07	23314794	Transistor, 2PC1815Y
QX09	23314794	Transistor, 2PC1815Y
QX10	23314794	Transistor, 2PC1815Y
QY09	A6000020	Transistor, RN1002
D108	23316756	Diode, Zener, MTZJ33D
D201	A7150041	Diode, 1SS104
D203	23115599	Diode, 1N4148
D204	23115599	Diode, 1N4148
D205	23115599	Diode, 1N4148
D246	23115599	Diode, 1N4148
D301	23118479	Diode, BYD33J
D302	23118479	Diode, BYD33J
D303	23115599	Diode, 1N4148
D320	23118822	Diode, ERB12-02
D321	23118822	Diode, ERB12-02
D332	23316794	Diode, SC570A
D340	23316666	Diode, Zener, MTZJ4.7B
D401	23316719	Diode, Zener, MTZJ12B
D402	23316734	Diode, Zener, MTZJ20B
D403	23316719	Diode, Zener, MTZJ12B
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D410	23316684	Diode, Zener, MTZJ8.2B
D471	A7801205	SCR, SF0R3G42
D474	23316728	Diode, Zener, MTZJ16B
D475	23316719	Diode, Zener, MTZJ12B
D591	23316554	Diode, 1SS146
D592	23316554	Diode, 1SS146
D593	23316554	Diode, 1SS146
D594	23115599	Diode, 1N4148 (2552DD)
D594	23118975	Diode, 1SS176 (2853DD/7053DD)
D601	23115599	Diode, 1N4148
D636	23115599	Diode, 1N4148
D637	23115599	Diode, 1N4148
D638	23115599	Diode, 1N4148
D639	23115599	Diode, 1N4148
D640	23115599	Diode, 1N4148
D641	23115599	Diode, 1N4148
D801	23316391	Diode, D3SB60, 4109
D802	23118479	Diode, BYD33J
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D807	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23316672	Diode, Zener, MTZJ5.6B
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23115599	Diode, 1N4148
D813	23118479	Diode, BYD33J
D814	23115599	Diode, 1N4148
D815	23316725	Diode, Zener, MTZJ15B
D816	23316674	Diode, Zener, MTZJ6.2A
D825	23115599	Diode, 1N4148
D826	23115599	Diode, 1N4148
D830	23118052	Diode, RU4Z
D831	23118479	Diode, BYD33J
D832	23118451	Diode, RU-4A
D844	23316718	Diode, Zener, MTZJ12A
D848	23316666	Diode, Zener, MTZJ4.7B
D861	23316672	Diode, Zener, MTZJ5.6B
D862	23316690	Diode, Zener, MTZJ10B
D874	23316670	Diode, Zener, MTZJ5.1C
D875	23115599	Diode, 1N4148
D878	23316671	Diode, Zener, MTZJ5.6A
DA02	23316675	Diode, Zener, MTZJ6.2B
DA03	23316675	Diode, Zener, MTZJ6.2B
DA05	23115599	Diode, 1N4148
DA06	23115599	Diode, 1N4148
DA15	23316675	Diode, Zener, MTZJ6.2B
DA96	23316675	Diode, Zener, MTZJ6.2B
DA98	23316675	Diode, Zener, MTZJ6.2B
DA99	23316675	Diode, Zener, MTZJ6.2B
DB01	23358504	LED, Red, SCL003URC3FX (2853DD/7053DD)
DD01	23118479	Diode, BYD33J
DD02	23316582	Diode, ERC20-06
DD03	23118479	Diode, BYD33J
DD04	23115599	Diode, 1N4148
DD05	23316718	Diode, Zener, MTZJ12A
DD06	23316672	Diode, Zener, MTZJ5.6B
DD07	23316672	Diode, Zener, MTZJ5.6B
DE50	23358504	LED, Red, SCL003URC3FX (2552DD)
DV01	23316690	Diode, Zener, MTZJ10B
DV03	23316690	Diode, Zener, MTZJ10B
DV04	23316690	Diode, Zener, MTZJ10B
DV05	23316690	Diode, Zener, MTZJ10B
DV06	23316690	Diode, Zener, MTZJ10B
DV07	23316690	Diode, Zener, MTZJ10B
DV08	23316687	Diode, Zener, MTZJ9.1B
DV40	23115599	Diode, 1N4148
DV44	23316666	Diode, Zener, MTZJ4.7B
DW01	23115599	Diode, 1N4148
DW02	23115599	Diode, 1N4148
DW03	23115599	Diode, 1N4148
DW04	23115599	Diode, 1N4148
DW05	23316663	Diode, Zener, MTZJ4.3B

Location No.	Part No.	Description
DW06	23316667	Diode, Zener, MTZJ4.7C
DW07	23316722	Diode, Zener, MTZJ13B
DW08	23316722	Diode, Zener, MTZJ13B
DX03	23115599	Diode, 1N4148
DX04	23115599	Diode, 1N4148
DX05	23115599	Diode, 1N4148
DX06	23115599	Diode, 1N4148
DX07	23115599	Diode, 1N4148
DX08	23115599	Diode, 1N4148
DX09	23115599	Diode, 1N4148
DX10	23115599	Diode, 1N4148
DX11	23115599	Diode, 1N4148
DX12	23316666	Diode, Zener, MTZJ4.7B
DX13	23115599	Diode, 1N4148

MISCELLANEOUS

Location No.	Part No.	Description
⚠F801	23144507	Fuse, 3.15A
F801A	23165433	Holder, Fuse
⚠F803	23144874	Fuse, 0.8A
F803A	23165433	Holder, Fuse
G343	24366103	CF, 10k ohm
G406	23103859	Coil (Ferrite Bead), TEM2011
GV84	24366681	CF, 680 ohm
GV85	24366681	CF, 680 ohm
GV86	24366681	CF, 680 ohm
GV87	24366681	CF, 680 ohm
GV88	24366681	CF, 680 ohm
GV89	24366681	CF, 680 ohm
H005	23148250	Module, MVGS44A, IGR BG/DK
K901	23120220	Remote Sensor, IR-9109A-K (2552DD)
KB01	23904946	Remote Sensor, RPM-676CBR-S (2853DD/7053DD)
P681	23363607	Jack, Earphone (2853DD/7053DD)
⚠P801	23372014	Power Cord
PH01	23365598	Connector, 21Pin
PH02	23365598	Connector, 21Pin
PH20	23363252	Pin Jack, Yellow
PH21	23365508	Jack, Phono
PH23	23365546	Jack, 2C-2P
S202	23344333	Switch, Lever, 1C3P
⚠S801	23344395	Switch, Power
SA01	23145428	Switch, Push, 1C1Px4 (2552DD)
SA01	23145430	Switch, Push (2853DD/7053DD)
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push (2853DD/7053DD)
SA04	23145430	Switch, Push (2853DD/7053DD)
SA05	23145430	Switch, Push (2853DD/7053DD)
⚠V901A	23902891	Socket, CRT, 10P
W201	23250120	Delay Line, TRF2133T
W501	23153357	1H Delay, ED645A91M
W661	23351086	Speaker, SPK-1358, 80x120mm, 8 ohm (2552DD)
W661	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm (2853DD/7053DD)
W662	23351086	Speaker, SPK-1358, 80x120mm, 8 ohm (2552DD)
W662	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm (2853DD/7053DD)
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153979	Crystal, 4.43MHz
XA01	23153845	Ceramic Resonator, 4MHz, TCR1015
ZF01	23153012	Crystal, 27MHz
ZP81	23144451	Protector, PRF5000, 125V, 5A
ZP82	23144452	Protector, PRF1000, 125V, 1A
ZV02	23107744	Filter, TEM1012
ZV04	23107744	Filter, TEM1012
ZV11	23107744	Filter, TEM1012
ZV13	23107744	Filter, TEM1012
ZZ01	23303056	Ceramic Trap, TCF1085, 4.43M

PC BOARD ASSEMBLIES

Location No.	Part No.	Description
* U901	23704101	CRT Drive Board, PB5447Y (2552DD)
* U901	23704405	CRT Drive Board, PB5447X (2853DD/7053DD)
* U902A	23704745	Signal Board, PB5448-1B (2552DD)
* U902A	23704751	Signal Board, PB5503H1 (2853DD/7053DD)
* U902B	23704746	Chroma Board, PB5448-2B (2552DD)
* U902B	23704215	Chroma Board, PB5503H2 (2853DD/7053DD)
* U903	23704744	Power/Def/Audio Board, PB5549B (2552DD)
* U903	23704752	Power/Def/Audio Board, PB5504H1 (2853DD/7053DD)

PICTURE TUBE

Location No.	Part No.	Description
⚠V901	23312462	Picture Tube, A59EAK71X01 (2552DD)
⚠V901	23312386	Picture Tube, A66ECY13X31 (2853DD/7053DD)

TUNER

Location No.	Part No.	Description
H001	23321162	Tuner, EG465LX1

ACCESSORIES

Location No.	Part No.	Description
K902	23306092	Remote Hand Unit, CT-9785
AT03	23305743	Battery Cover
Y101	23562515	Owner's Manual, German, 2552DD
Y101	23562522	Owner's Manual, German, 2853DD/7053DD
Y102	23562516	Owner's Manual, Italian, 2552DD
Y102	23562524	Owner's Manual, Italian, 2853DD/7053DD

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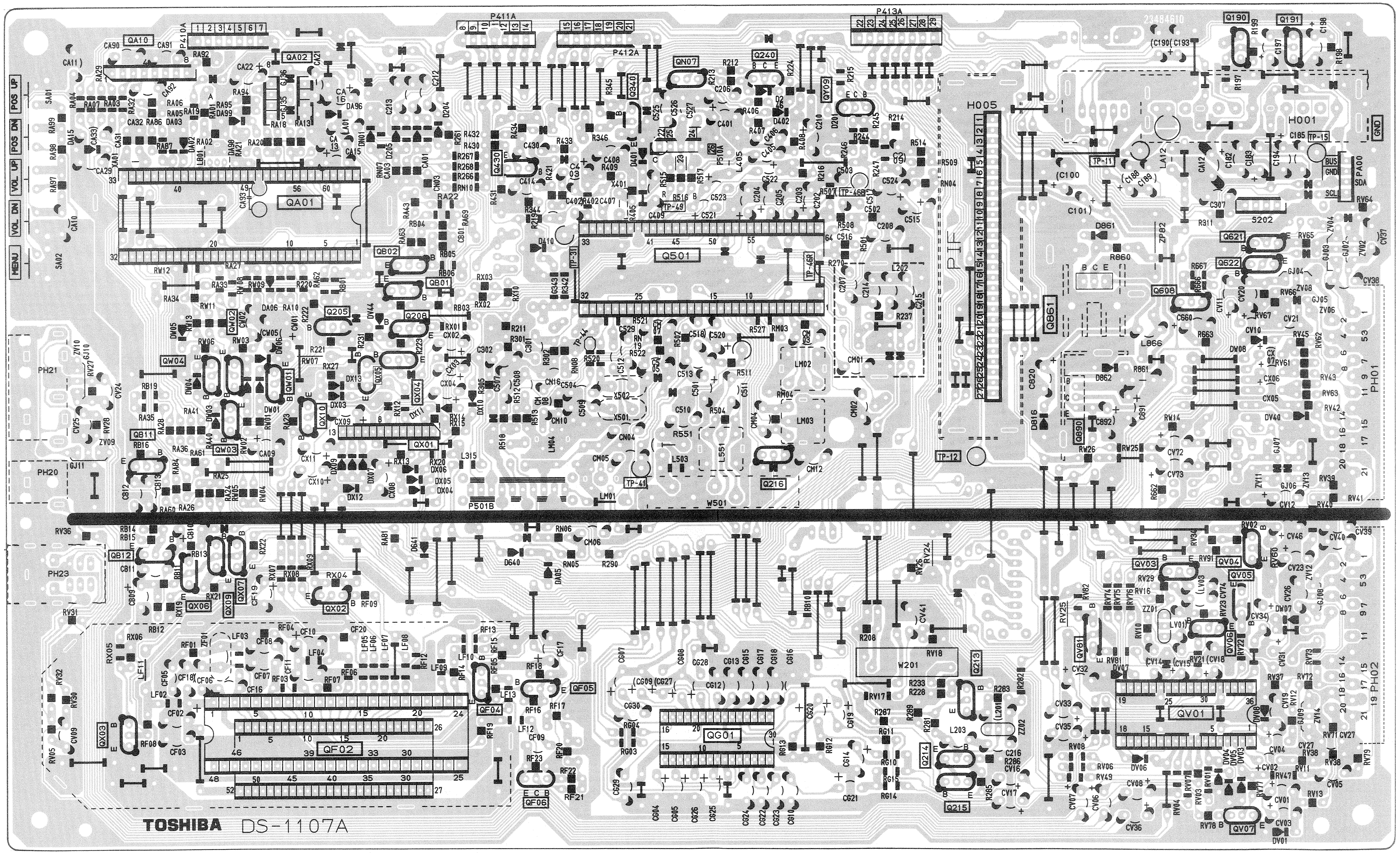
SIGNAL BOARD (2552DD)

BOTTOM (FOIL) SIDE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POS DN
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Q501
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GND
BUS
SDA
SCL
PA00
PH21
PH20
PH23
PH01
PH02
QF02
QG01
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W201
W501
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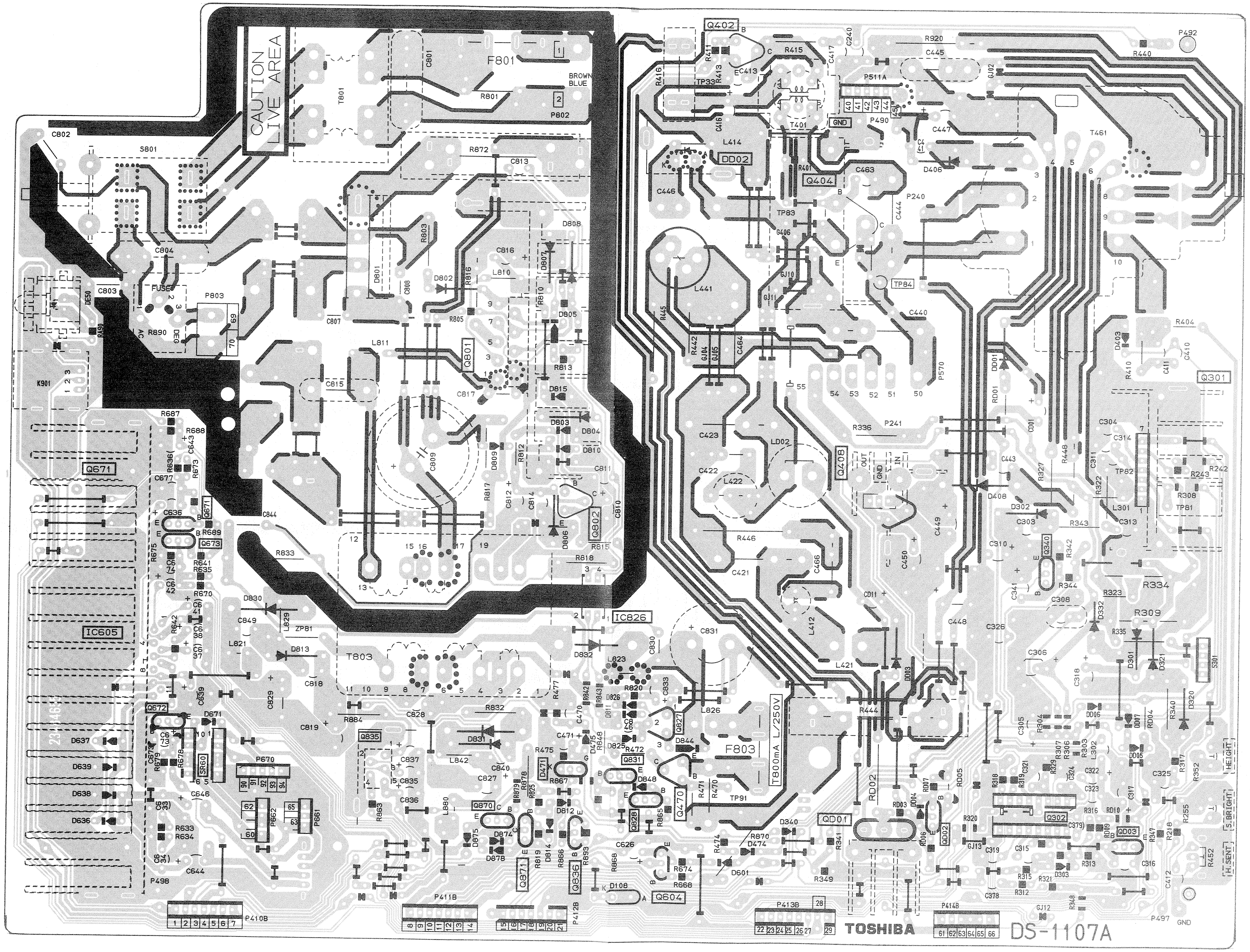
TOSHIBA
DS-1107A

POWER/DEF/AUDIO BOARD (2552DD)

BOTTOM (FOIL) SIDE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BLUE
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R801
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S801
R872
C813
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FUSE
P803
R890
K901
D808
D802
C816
L810
D805
R805
L811
Q801
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D815
C815
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R812
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C810
D806
R815
R818
Q671
C677
C636
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Q673
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R641
R635
R670
IC605
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C849
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C830
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R634
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P412B
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C471
D471
R867
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R352
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C316
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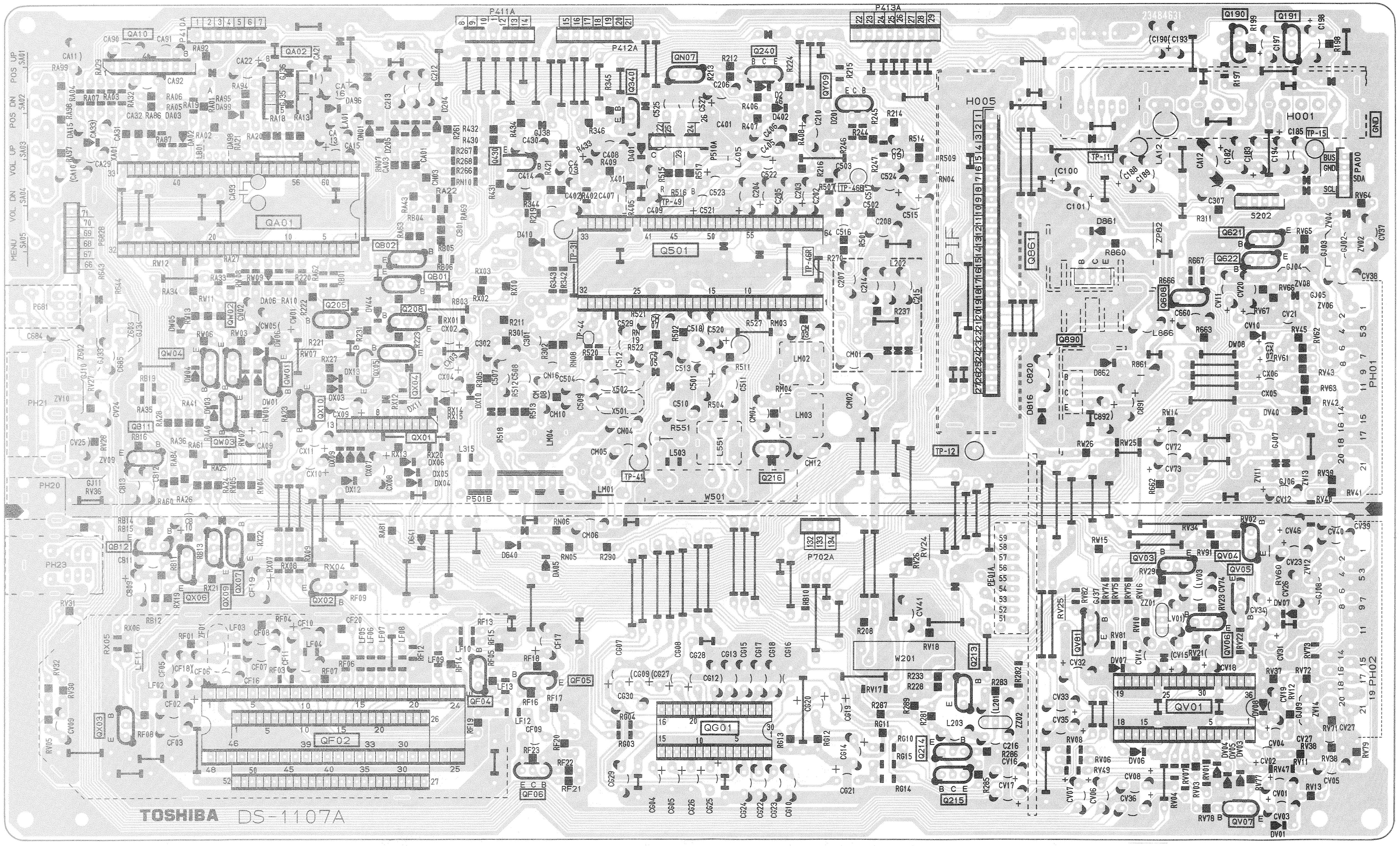
R349
R341

SIGNAL BOARD (2853DD), (7053DD)

BOTTOM (FOIL) SIDE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PH21
PH23
P681
MENU SA05
VOL DN SA04
VOL UP SA03
POS DN SA02
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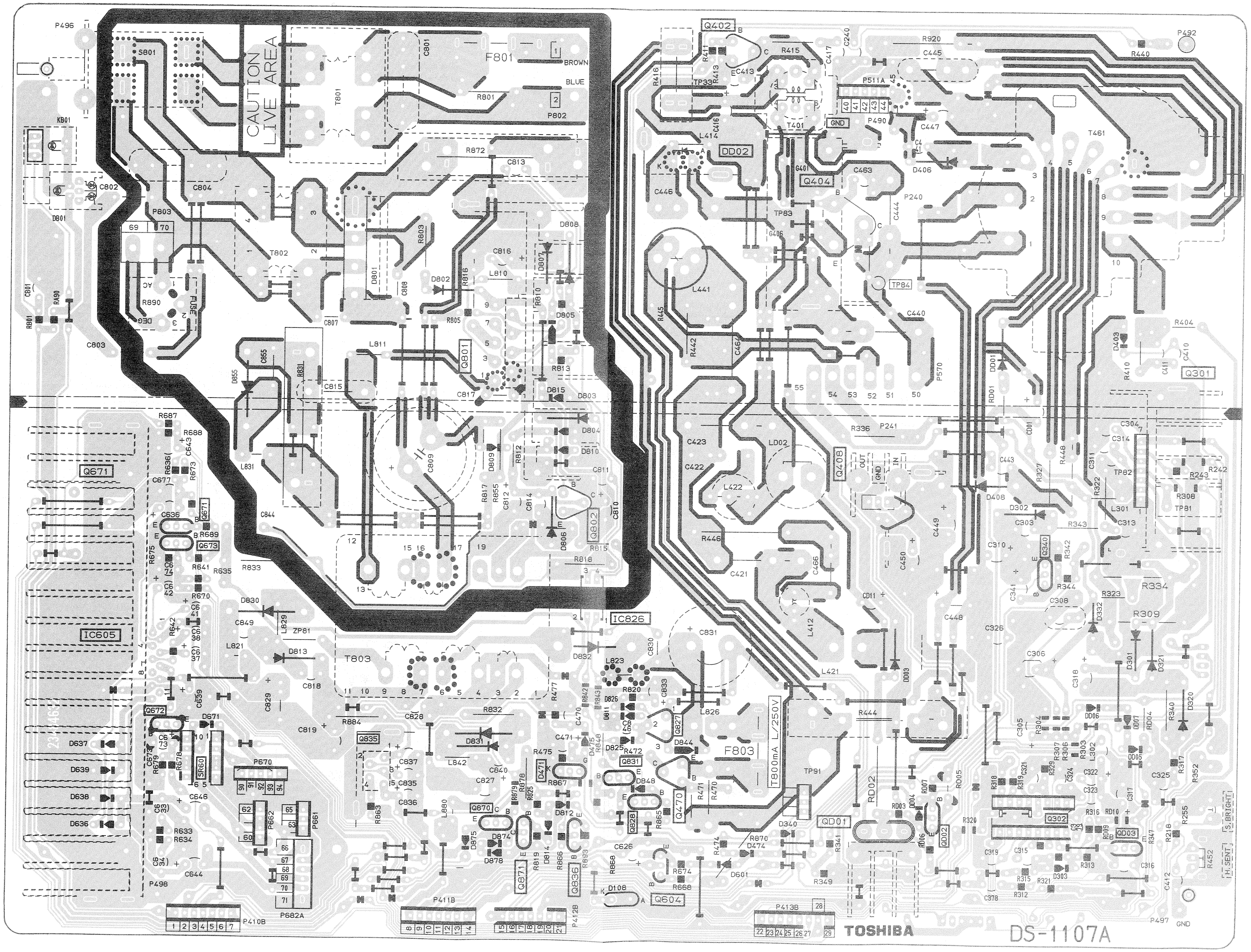
SDA
SCL
PA00

POWER/DEF/AUDIO BOARD (2853DD), (7053DD)

BOTTOM (FOIL) SIDE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Q408
Q301
Q302
Q604
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QD02
QD03
DD02
F803
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TOSHIBA
DS-1107A
P410B
P411B
P412B
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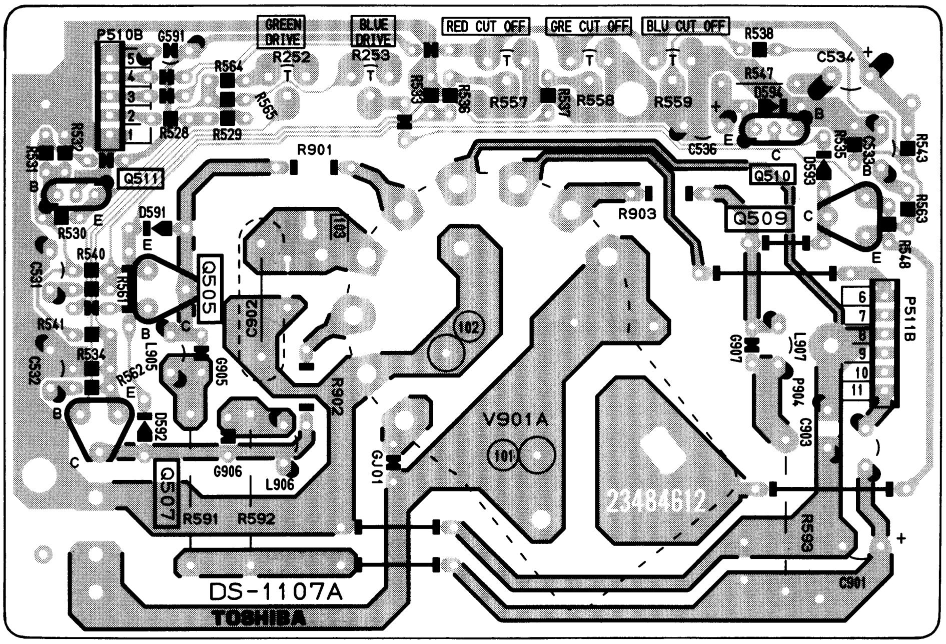
S.BRIGHT
H.SENT

CRT DRIVE BOARD

BOTTOM (FOIL) SIDE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GRE CUT OFF
BLU CUT OFF
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C534
R252
R253
R564
R565
R528
R529
R533
R536
R557
R537
R558
R559
R547
D594
C536
R535
C533
R543
R532
R531
Q511
R901
Q510
D593
R563
R530
D591
R903
Q509
R548
R540
C531
R551
Q505
C902
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G906
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GJ01
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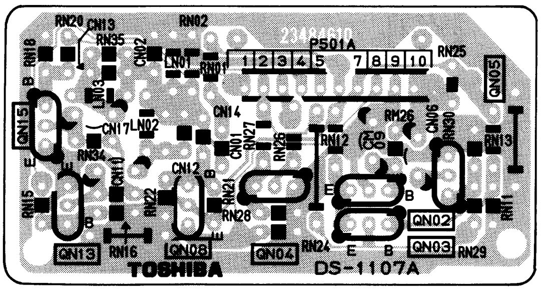
TOSHIBA

CHROMA BOARD (2552DD)

BOTTOM (FOIL) SIDE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RN22
RN28
RN15
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RN11
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RN16
QN08
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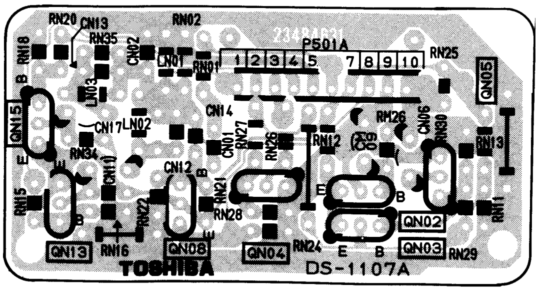
DS-1107A

CHROMA BOARD (2853DD), (7053DD)

BOTTOM (FOIL) SIDE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CN12
RN21
RN22
RN28
RN15
QN02
RN11
QN13
RN16
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RN24
QN03
RN29
TOSHIBA
DS-1107A

TERMINAL VIEW OF TRANSISTORS

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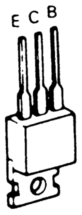

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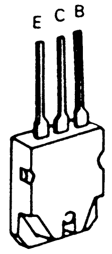

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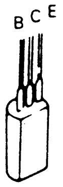

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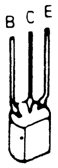

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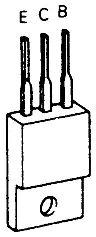
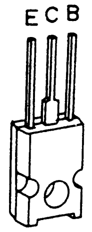
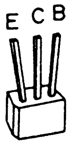


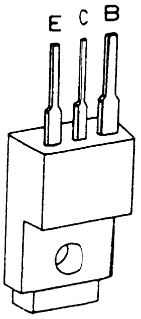
⑥ 2SC3619



⑦ RN1203
RN1204
RN1206
RN2004



⑧ 2SB1186A
2SD1763A

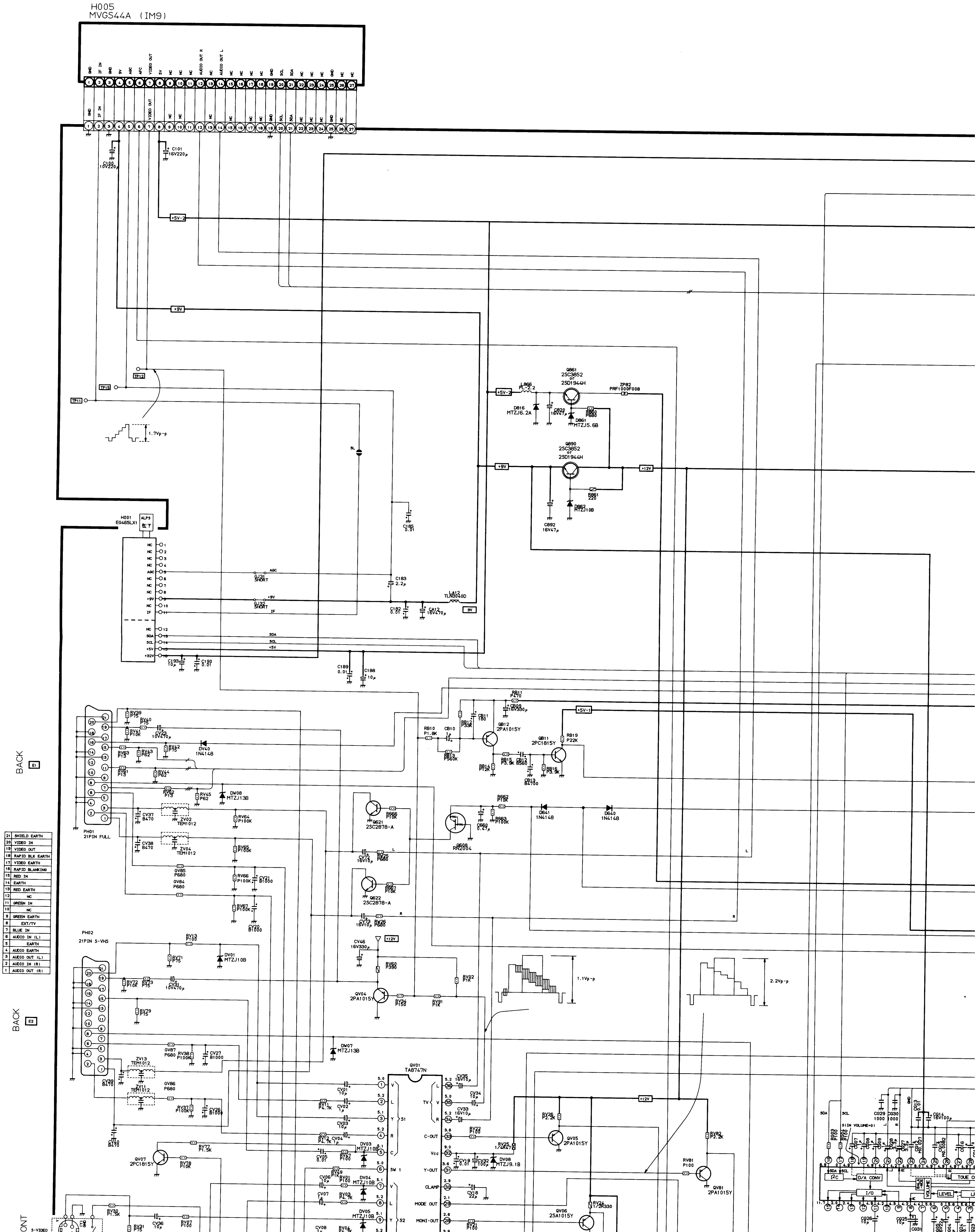


SCHEMATIC DIAGRAM MODEL: 2552DD : 2853DD (1/2)
7053DD

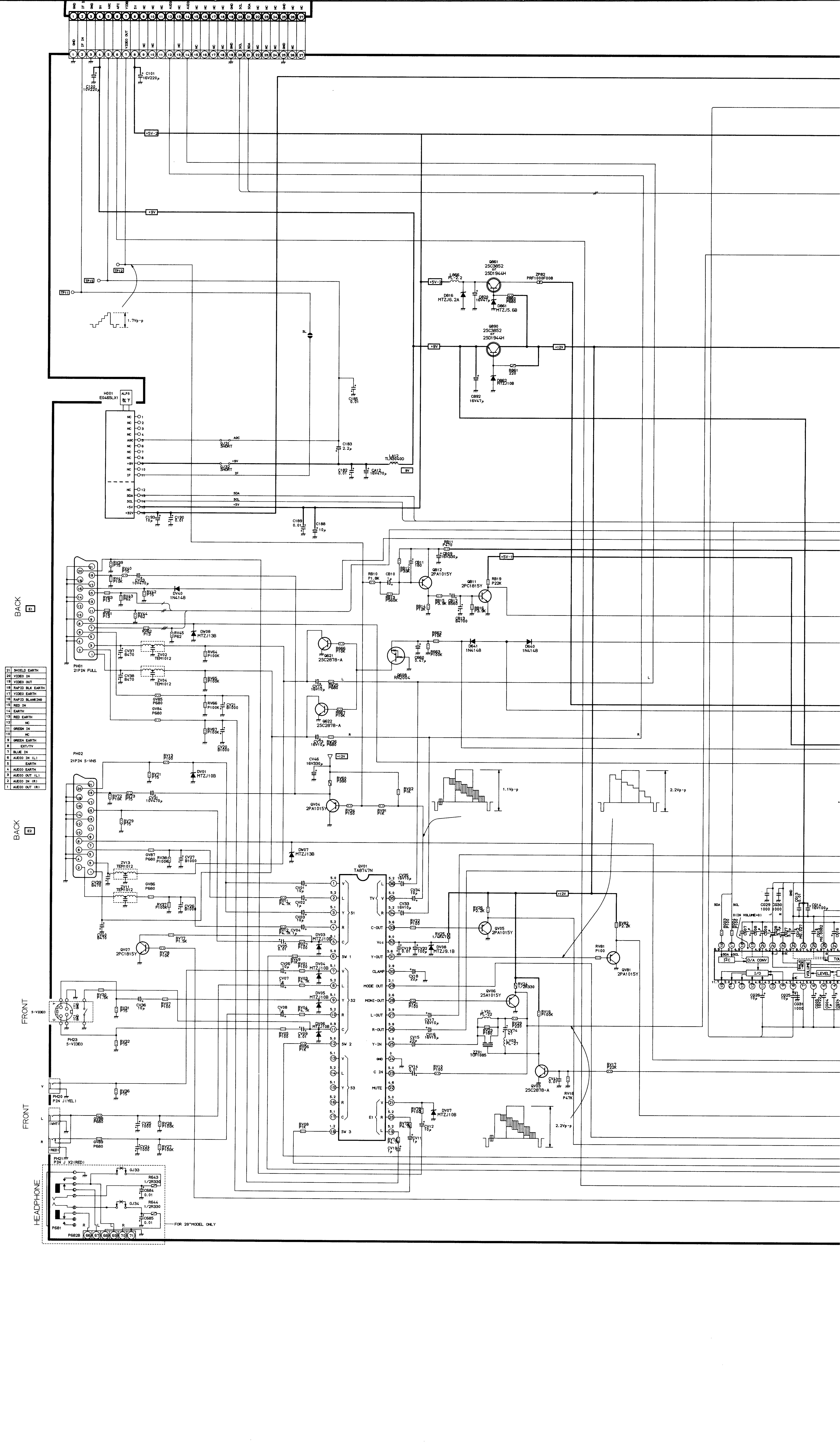
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES A

1. Voltages read with VTVM from volts, colour bar signal. Volta
2. All waveforms are taken using
3. Waveforms are taken using a
4. Make sure that CONTRAST BRIGHTNESS control is almos picture.



H005
MVGS44A (IM9)
GND
IF IN
AGC
AFC
VIDEO OUT
5V
NC
AUDIO OUT R
AUDIO OUT L
SCL
SDA
C101 16V220μ
C100 16V220μ
+5V-2
+9V
+12V
+5V-1
TP11
TP12
TP13
1.7Vp-p
Q861 2SC3852 or 2SD1944H
L866
D816 MTZJ6.2A
C820 16V47μ
D861 MTZJ5.6B
ZP82 PRF1000F008
Q896 2SC3852 or 2SD1944H
D862 MTZJ10B
C892 16V47μ
H001 EG465LX1
ALP3
C186 0.01
C183 2.2μ
LA12 TLN3040D
CA12 16V470μ
C182 0.01
C193 10μ
C190 0.01
C189 0.01
C188 10μ
GJ31 SHORT
GJ32 SHORT
AGC
IF
SDA
SCL
+5V
BACK E1
PH01 21PIN FULL
21 SHIELD EARTH
20 VIDEO IN
19 VIDEO OUT
18 RAPID BLK EARTH
17 VIDEO EARTH
16 RAPID BLANKING
15 RED IN
14 EARTH
13 RED EARTH
12 NC
11 GREEN IN
10 NC
9 GREEN EARTH
8 EXT/TV
7 BLUE IN
6 AUDIO IN (L)
5 EARTH
4 AUDIO EARTH
3 AUDIO OUT (L)
2 AUDIO IN (R)
1 AUDIO OUT (R)
DV40 1N4148
DV08 MTZJ13B
ZV02 TEM1012
ZV04 TEM1012
CV37 B470
CV38 B470
Q621 2SC2878-A
Q622 2SC2878-A
Q608 RN2004
Q812 2PA1015Y
Q811 2PC1815Y
D641 1N4148
D640 1N4148
PH02 21PIN S-VHS
BACK E2
DV01 MTZJ10B
DV07 MTZJ13B
ZV13 TEM1012
ZV11 TEM1012
QV04 2PA1015Y
CV46 16V330μ
1.1Vp-p
2.2Vp-p
QV01 TA8747N
TV
S1
S2
SW 1
C-OUT
Vcc
Y-OUT
CLAMP
MODE OUT
MONI-OUT
DV03 MTZJ10B
DV04 MTZJ10B
DV05 MTZJ10B
DV08 MTZJ9.1B
QV05 2PA1015Y
QV06 2SA1015Y
QV07 2PC1815Y
QV81 2PA1015Y
SDA
SCL
I2C
D/A CONV
I/O
LEVEL
VOLUME
TONE C
S-VIDEO
FRONT



BACK E1
BACK E2
FRONT
FRONT
HEADPHONE
H001 EG465LX1
PH01 21PIN FULL
PH02 21PIN S-VHS
PH23 S-VIDEO
PH20 PIN J(YEL)
PH21 PIN J X2(RED)
P681
P682B
QV01 TA8747N
Q861 2SC3852 or 2SD1944H
Q890 2SC3852 or 2SD1944H
Q812 2PA1015Y
Q811 2PC1815Y
Q621 2SC2878-A
Q622 2SC2878-A
Q609 RN2004
QV04 2PA1015Y
QV05 2PA1015Y
QV06 2SA1015Y
QV07 2PC1815Y
QV03 2SC2878-A
QV81 2PA1015Y
D816 MTZJ6.2A
D861 MTZJ5.6B
D862 MTZJ10B
DV40 1N4148
D641 1N4148
D640 1N4148
DV08 MTZJ13B
DV01 MTZJ10B
DV07 MTZJ13B
ZV02 TEM1012
ZV04 TEM1012
ZV13 TEM1012
ZV11 TEM1012
+5V-2
+9V
+12V
+5V-1
TP11
TP12
TP13
1.7Vp-p
1.1Vp-p
2.2Vp-p
2.2Vp-p
SDA
SCL
I2C
D/A CONV
I/O
VOLUME
LEVEL
5-VIDEO
FOR 28"MODEL ONLY

21	SHIELD EARTH
20	VIDEO IN
19	VIDEO OUT
18	RAPID BLK EARTH
17	VIDEO EARTH
16	RAPID BLANKING
15	RED IN
14	EARTH
13	RED EARTH
12	NC
11	GREEN IN
10	NC
9	GREEN EARTH
8	EXT/TV
7	BLUE IN
6	AUDIO IN (L)
5	EARTH
4	AUDIO EARTH
3	AUDIO OUT (L)
2	AUDIO IN (R)
1	AUDIO OUT (R)

LTAGES AND WAVEFORMS

VTVM from point shown to chassis ground, line voltage 220
nal. Voltages reading may vary ±20%.
ken using a wide band oscilloscope and a low capacity probe.
n using a standard colour bar signal.
NTRAST and COLOUR controls are in mid position and
l is almost in maximum position. Set other controls for best

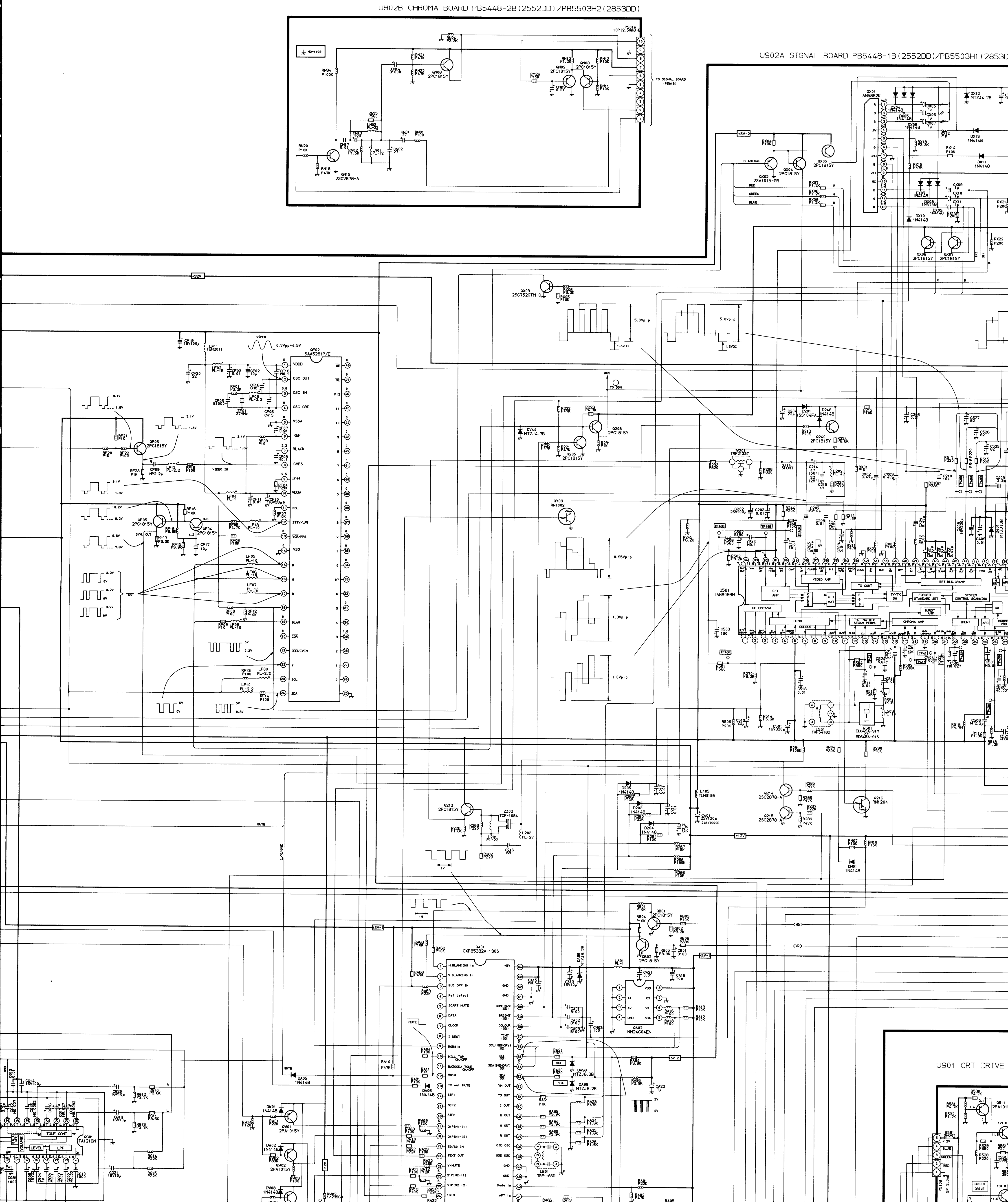
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ⊖ : Solder links.

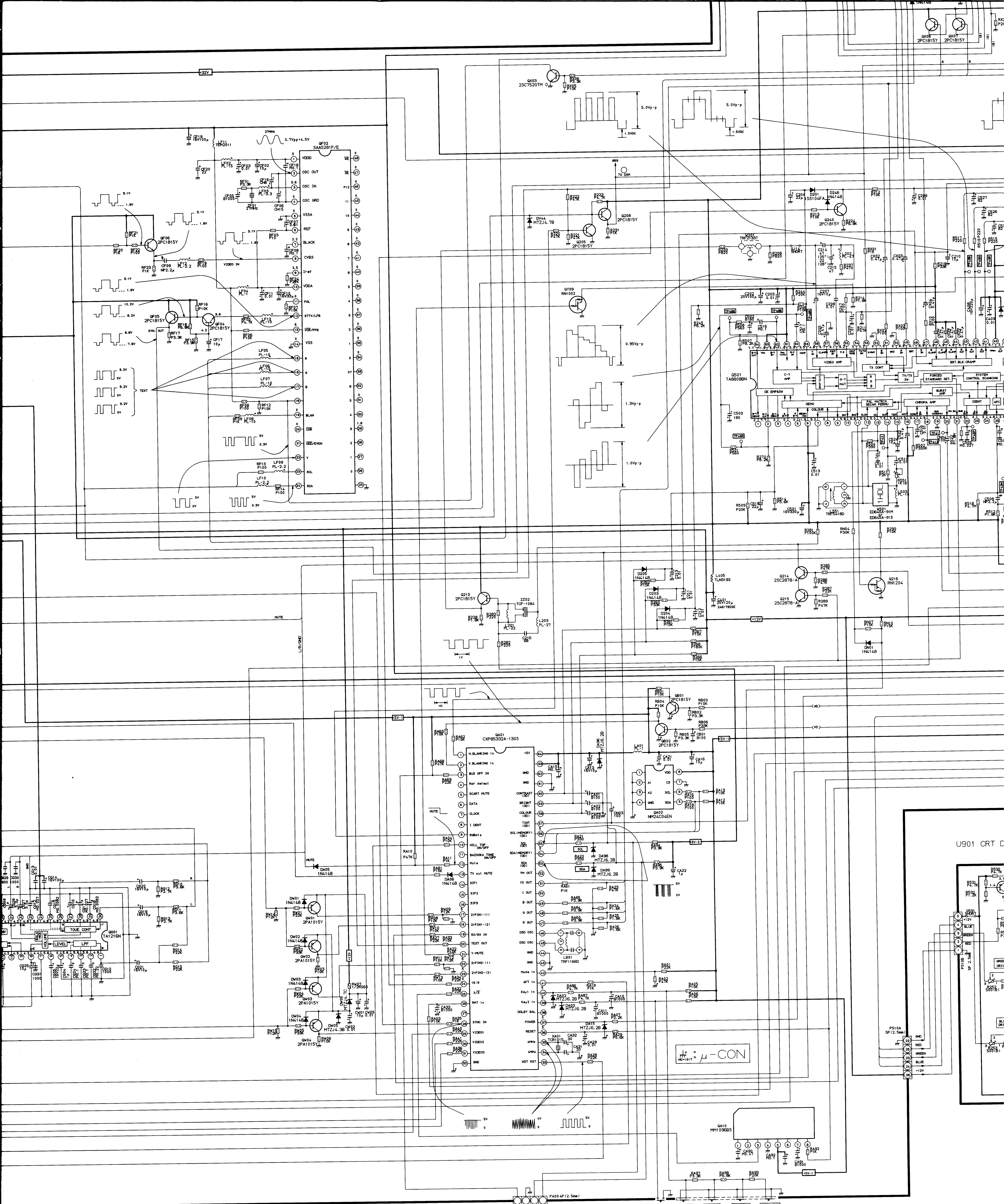
EXPRESSION

VALUE OF RESI

1. Resistance is sho
2. Unless other wis
sed in μF and th
3. Unless otherwise
sed in μH, and th



U902B CHROMA BOARD PB5448-2B(2552DD)/PB5503H2(2853DD)
U902A SIGNAL BOARD PB5448-1B(2552DD)/PB5503H1(2853D
U901 CRT DRIVE
TO SIGNAL BOARD (P501B)
QX01 AN5862K
QF02 SAA5281P/E
Q501 TA8880BN
QA01 CXP85332A-1305
QA02 NM24C04EN
QG01 TA1216N
QN15 2SC2878-A
QN08 2PC1815Y
QN02 2PC1015Y
QN03 2PC1815Y
QX02 2SA1015-GR
QX04 2PC1815Y
QX05 2PC1815Y
QX06 2PC1815Y
QX07 2PC1815Y
QX03 2SC752GTM O
QF05 2PC1815Y
QF04 2PC1815Y
QF06 2PC1815Y
Q208 2PC1815Y
Q205 2PC1815Y
Q240 2PC1815Y
QY09 RN1002
Q213 2PC1815Y
Q214 2SC2878-A
Q215 2SC2878-A
Q216 RN1204
Q801 2PC1815Y
Q802 2PC1815Y
QV01 2PA1015Y
QV02 2PA1015Y
+32V
+5V-2
+5V-1
+12V
BLANKING
RED
GREEN
BLUE
VIDEO IN
TEXT
MUTE
L/R/GND
27MHz
0.7Vpp+4.5V
5.0Vp-p
1.5VDC
0.95Vp-p
1.3Vp-p
1.0Vp-p
1H
1V

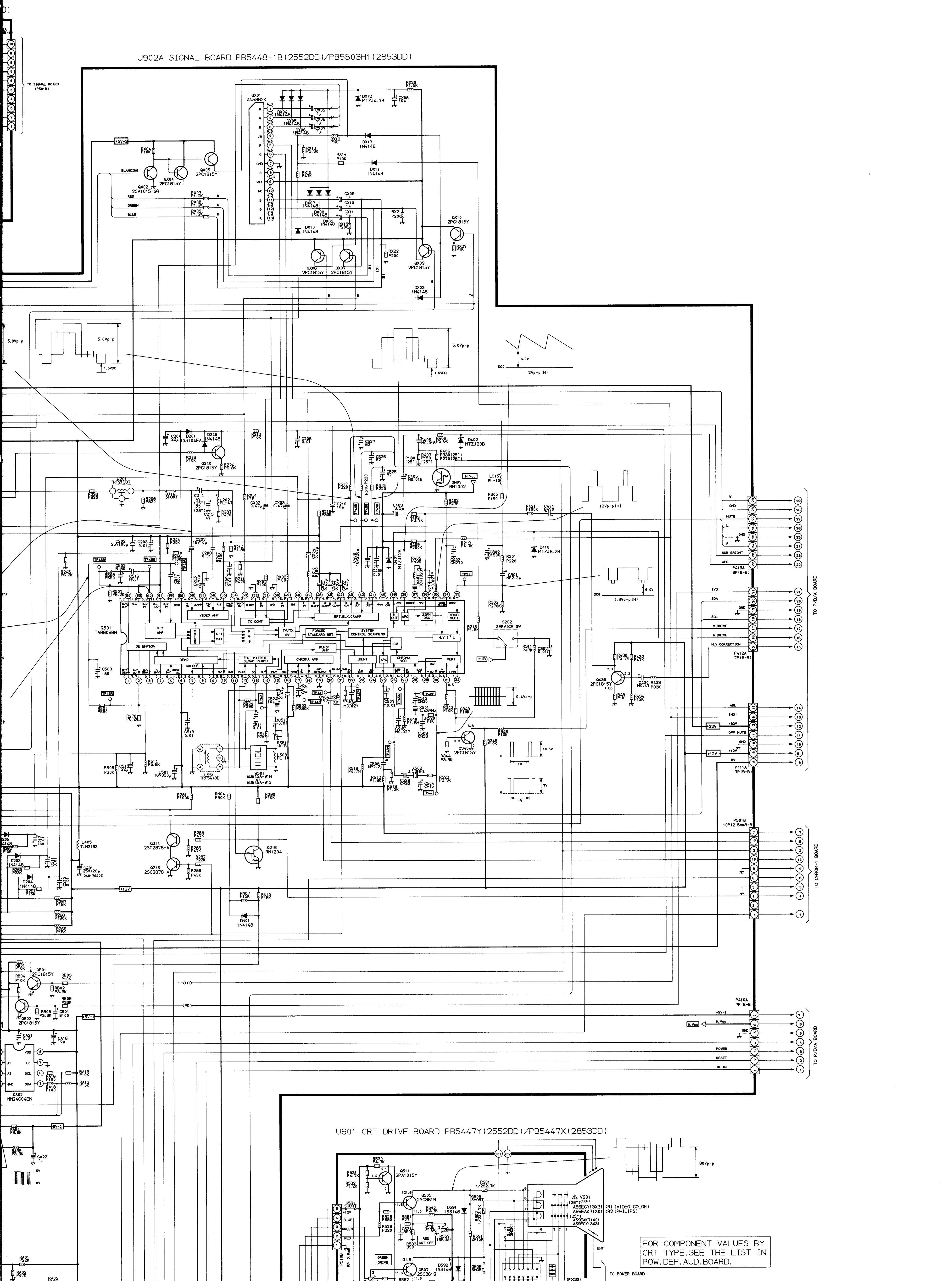

+32V
QF02
SAA5281P/E
27MHz
0.7Vpp+4.5V
QF06
2PC1815Y
QF05
2PC1815Y
QF04
2PC1815Y
TEXT
VIDEO IN
QX03
2SC752GTM O
5.0Vp-p
1.5VDC
TO DSM
Q208
2PC1815Y
Q205
2PC1815Y
DV44
MTZJ4.7B
QY09
RN1002
0.95Vp-p
1.3Vp-p
1.0Vp-p
Q501
TA8680BN
VIDEO AMP
TX CONT
TV/TX SW
FORCED STANDARD SET.
SYSTEM CONTROL SCANNING
BRT.BLK.CRAMP
C-Y AMP
DE EMP&SW
DEMO
COLOUR
PAL MATRIX SECAM PERMU
CHROMA AMP
BURST AMP
IDENT
QX06
2PC1815Y
QX07
2PC1815Y
Q240
2PC1815Y
D201
1SS104FA
D246
1N4148
Q213
2PC1815Y
ZZ02
TCF-1084
L405
TLN3193
Q214
2SC2878-A
Q215
2SC2878-A
Q216
RN1204
DN01
1N4148
+12V
MUTE
QA01
CXP85332A-130S
H.BLANKING in
V.BLANKING in
BUS OFF IN
Ref defeat
SCART MUTE
DATA
CLOCK
I DENT
RGBdis
HILL TOP ON/OFF
BAZOOKA TONE ON/OFF
Mute
TV out MUTE
SIF1
SIF2
SIF3
21PIN1-(1)
21PIN1-(2)
50/60 IN
TEXT OUT
Y-MUTE
21PIN2-(1)
21PIN2-(2)
16:9
S/S
RMT in
SYNC IN
VIDEO1
VIDEO2
VIDEO3
GND
+5V
CONTRAST (IO)
BRIGHT (IO)
COLOUR (IO)
TINT (IO)
SCL(MEMORY)(IO)
SDA(MEMORY)(IO)
YM OUT
YS OUT
I OUT
B OUT
G OUT
R OUT
OSD OSC
Mode in
AFT in
Key1 in
Key2 in
DOLBY BAL
POWER
RESET
4MHz
VDT RST
+5V-1
+5V-2
QB01
2PC1815Y
QB02
2PC1815Y
QA02
NM24C04EN
VDD
WC
SCL
SDA
GND
DA98
MTZJ6.2B
DA99
MTZJ6.2B
DA15
MTZJ6.2B
XA01
TCR1015
LB01
TRF1166D
μ-CON
DW01
1N4148
QW01
2PA1015Y
QW02
2PA1015Y
QW03
2PA1015Y
QW04
2PA1015Y
DW05
MTZJ4.3B
QG01
TA1216N
TONE CONT
LEVEL
LPF
VOLUME
QA10
MM1096BS
PA00 4P(2.5mm)
BUS OFF
GND
SDA
SCL
MENU
VOL DN
VOL UP
POS DN
POS UP
SA02
PUSH SW
SA01
PUSH SW X4
U901 CRT D
P510A
SP(2.5mm)
GND
RED
GREEN
BLUE
+12V

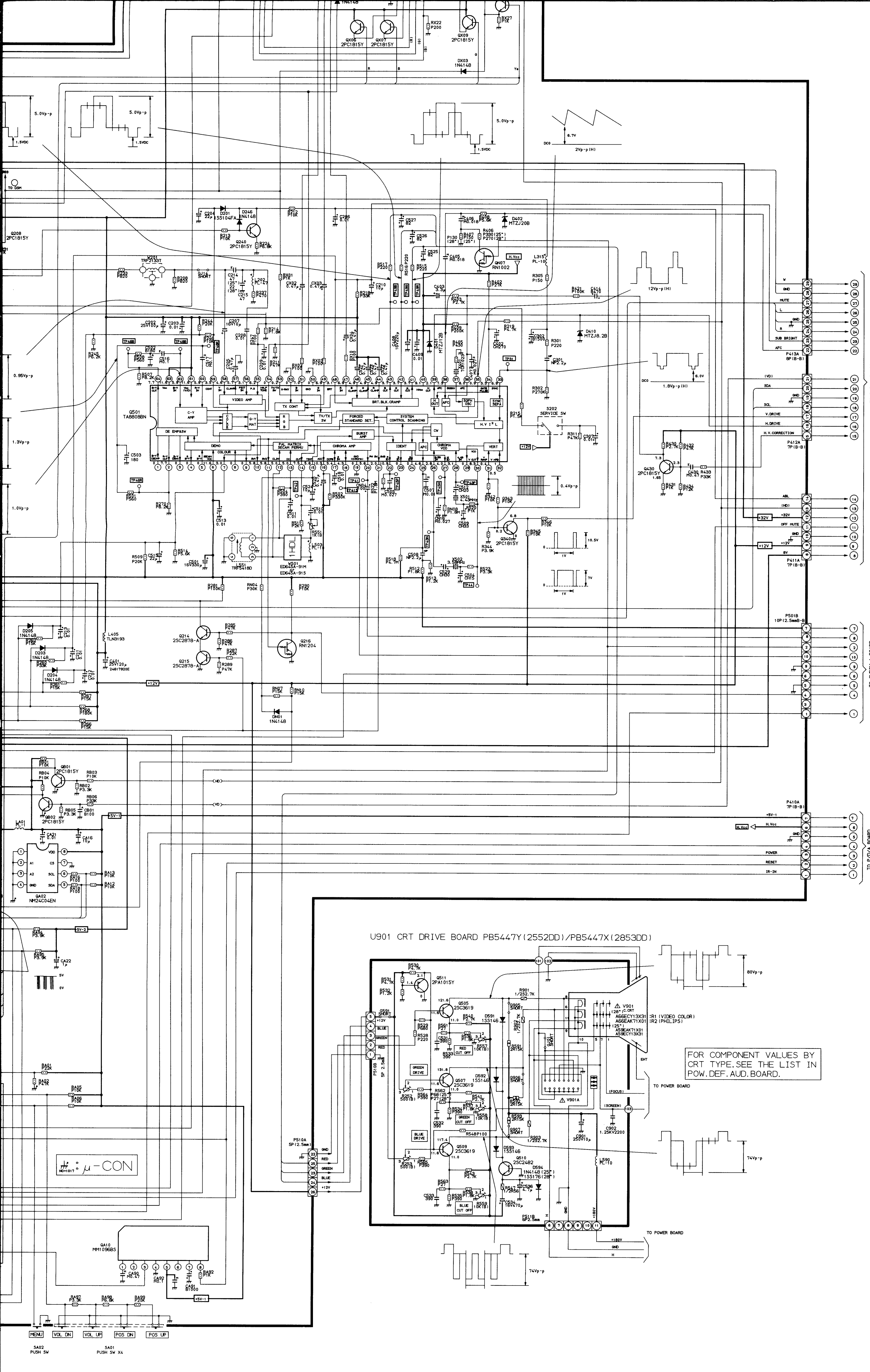
rmer is shown in this schematic dia-
n the circuit.
otice.

EXPRESSION

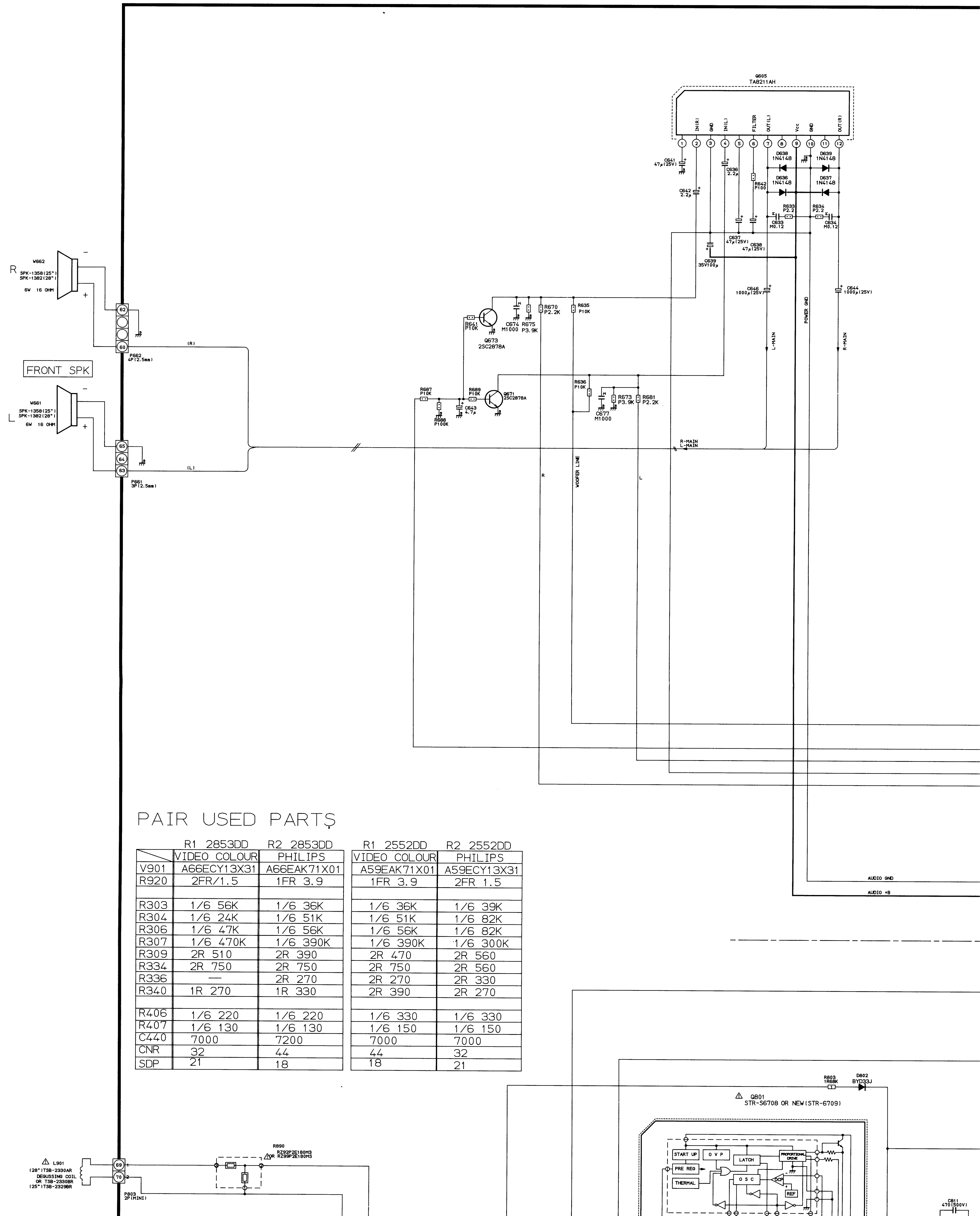
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.


U902A SIGNAL BOARD PB5448-1B(2552DD)/PB5503H1(2853DD)
TO SIGNAL BOARD (P501B)
QX01 AN5862K
Q501 TA8880BN
VIDEO AMP
TX CONT
BRT.BLK.CRAMP
FORCED STANDARD SET.
SYSTEM CONTROL SCANNING
BURST AMP
DEMO
COLOUR
PAL MATRIX SECAM PERMU
CHROMA AMP
IDENT
APC
CHROMA VCO
VERT
C-Y AMP
DE EMPASW
H.V I²L
SYNC SEPA
SERVICE SW
5.0Vp-p
1.5VDC
2Vp-p(H)
12Vp-p(H)
1.8Vp-p(H)
0.4Vp-p
P413A 8P(B-B)
P412A 7P(B-B)
P411A 7P(B-B)
P501B 10P(2.5mmB-B)
P410A 7P(B-B)
TO P/D/A BOARD
TO CHROM-1 BOARD
TO P/D/A BOARD
MUTE
SUB BRIGHT
AFC
SDA
SCL
V.DRIVE
H.DRIVE
H.V.CORRECTION
ABL
OFF MUTE
H.Vcc
POWER
RESET
IR-IN
QA02 NM24C04EN
U901 CRT DRIVE BOARD PB5447Y(2552DD)/PB5447X(2853DD)
80Vp-p
V901 C-CRT
(28") A66ECY13X31 :R1 (VIDEO COLOR)
A66EAK71X01 :R2 (PHILIPS)
(25") A59EAK71X01
A59ECY13X31
FOR COMPONENT VALUES BY CRT TYPE, SEE THE LIST IN POW. DEF. AUD. BOARD.
TO POWER BOARD
BLUE
GREEN
RED

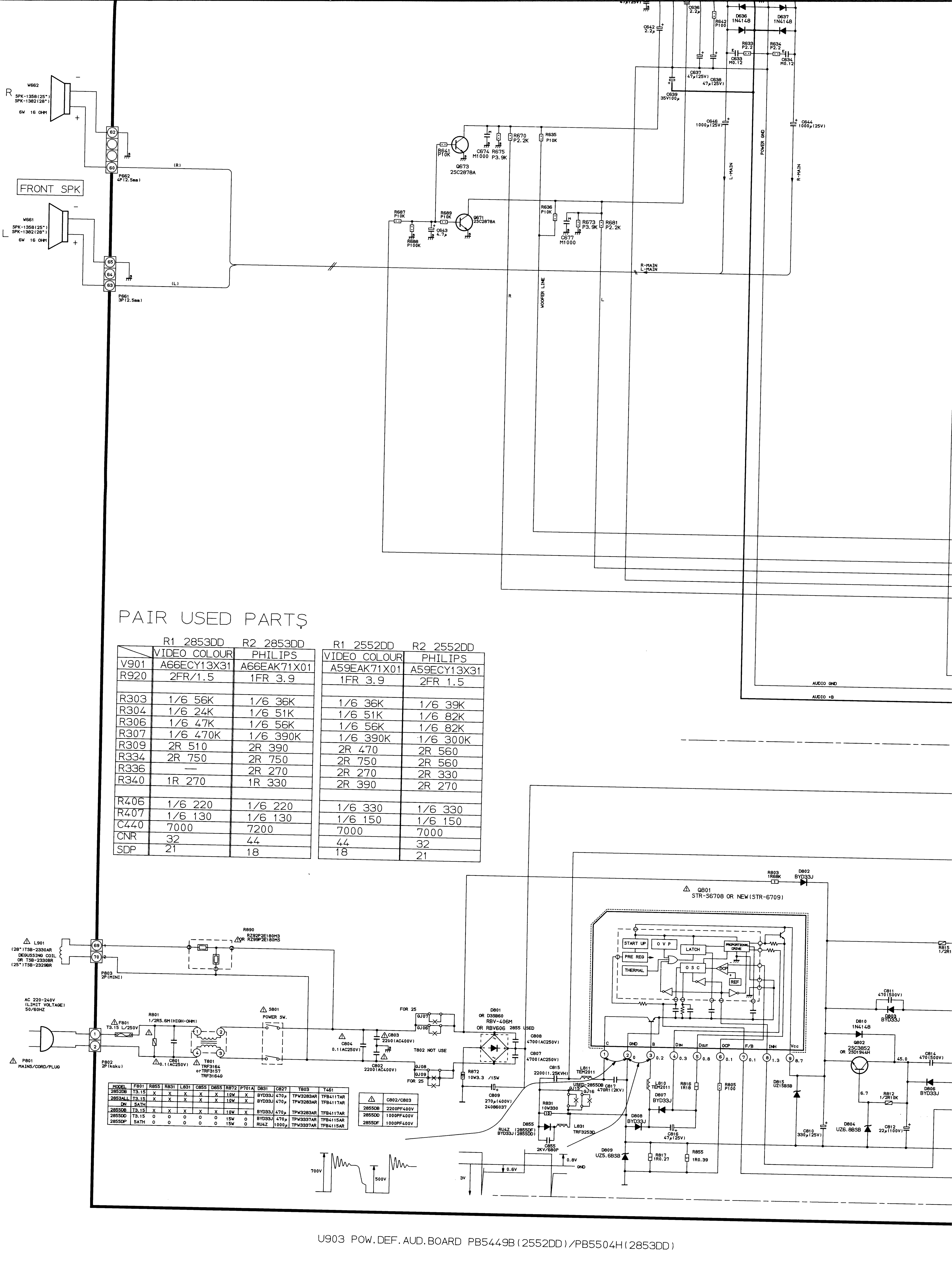

U901 CRT DRIVE BOARD PB5447Y(2552DD)/PB5447X(2853DD)
FOR COMPONENT VALUES BY CRT TYPE. SEE THE LIST IN POW. DEF. AUD. BOARD.
Q501 TA8808BN
VIDEO AMP
TX CONT
BRT.BLK.CRAMP
TV/TX SW
FORCED STANDARD SET.
SYSTEM CONTROL SCANNING
C-Y AMP
DE EMPASW
DEMO
COLOUR
PAL MATRIX SECAM PERMU
CHROMA AMP
BURST AMP
IDENT
APC
CHROMA VCO
VERT
H.V I²L
SYNC SEPA
S202 SERVICE SW
TO P/D/A BOARD
TO CHROM-1 BOARD
TO POWER BOARD
P413A 8P(B-B)
P412A 7P(B-B)
P411A 7P(B-B)
P501B 10P(2.5mmB-B)
P410A 7P(B-B)
P510A SP(2.5mm)
P510B SP 2.5mm
P511B SP2.5mm
SUB BRIGHT
AFC
MUTE
SDA
SCL
V.DRIVE
H.DRIVE
H.V.CORRECTION
ABL
OFF MUTE
POWER
RESET
IR-IN
H.Vcc
+5V-1
+12V
+32V
QA02 NM24C04EN
QA10 MM1096BS
μ-CON
MENU
VOL DN
VOL UP
POS DN
POS UP
SA02 PUSH SW
SA01 PUSH SW X4
V901 A66ECY13X31 :R1 (VIDEO COLOR) A66EAK71X01 :R2 (PHILIPS) A59EAK71X01 A59ECY13X31
Q505 2SC3619
Q507 2SC3619
Q509 2SC3619
Q510 2SC2482
Q511 2PA1015Y
RED CUT OFF
GREEN CUT OFF
BLUE CUT OFF
GREEN DRIVE
BLUE DRIVE
(FOCUS)
(SCREEN)
EHT
+180V
GND
80Vp-p
74Vp-p
5.0Vp-p
12Vp-p(H)
2Vp-p(H)
1.8Vp-p(H)
0.95Vp-p
1.3Vp-p
1.0Vp-p
0.4Vp-p
10.5V
1V
TV
TO DSM
Q430 2PC1815Y
Q216 RN1204
Q214 2SC2878-A
Q215 2SC2878-A
QN07 RN1002
Q240 2PC1815Y
Q208 2PC1815Y
Q340 2PC1815Y
QB01 2PC1815Y
QB02 2PC1815Y
QX08 2PC1815Y
QX07 2PC1815Y
QX09 2PC1815Y
D402 MTZJ20B
D410 MTZJ8.2B
L315 PL-10
L405 TLN3193
L590 PL-10
X201 TRF2133T
X501 ED645A-91M
ED645A-915
L551 TRF5418D
DN01 1N4148
DX03 1N4148

SCHEMATIC DIAGRAM MODEL: 2552DD : 2853DD (2/2)
7053DD


Q605
TA8211AH
IN(R)
GND
IN(L)
FILTER
OUT(L)
Vcc
GND
OUT(R)
C641 47µ(25V)
C642 2.2µ
C636 2.2µ
R642 P100
D638 1N4148
D639 1N4148
D636 1N4148
D637 1N4148
R633 P2.2
R634 P2.2
C633 M0.12
C634 M0.12
C637 47µ(25V)
C638 47µ(25V)
C639 35V100µ
C646 1000µ(25V)
C644 1000µ(25V)
POWER GND
L-MAIN
R-MAIN
W662
R
SPK-1358(25")
SPK-1382(28")
6W 16 OHM
P662 4P(2.5mm)
(R)
FRONT SPK
W661
L
SPK-1358(25")
SPK-1382(28")
6W 16 OHM
P661 3P(2.5mm)
(L)
R641 P10K
Q673 2SC2878A
C674 M1000
R675 P3.9K
R670 P2.2K
R635 P10K
R687 P10K
R688 P100K
C643 4.7µ
R689 P10K
Q671 2SC2878A
R636 P10K
C677 M1000
R673 P3.9K
R681 P2.2K
R-MAIN
L-MAIN
R
WOOFER LINE
L
AUDIO GND
AUDIO +B
R803 1R68K
D802 BYD33J
Q801
STR-S6708 OR NEW(STR-6709)
START UP
O V P
LATCH
PROPORTIONAL DRIVE
PRE REG
THERMAL
O S C
OCP
REF
C811 470(500V)
L901
(28")TSB-2330AR
DEGUSSING COIL
OR TSB-2330BR
(25")TSB-2329BR
P803 2P(MINI)
R890
RZ92P2E180M3
OR RZ99P2E180MS

PAIR USED PARTS

	R1 2853DD	R2 2853DD	R1 2552DD	R2 2552DD
	VIDEO COLOUR	PHILIPS	VIDEO COLOUR	PHILIPS
V901	A66ECY13X31	A66EAK71X01	A59EAK71X01	A59ECY13X31
R920	2FR/1.5	1FR 3.9	1FR 3.9	2FR 1.5
R303	1/6 56K	1/6 36K	1/6 36K	1/6 39K
R304	1/6 24K	1/6 51K	1/6 51K	1/6 82K
R306	1/6 47K	1/6 56K	1/6 56K	1/6 82K
R307	1/6 470K	1/6 390K	1/6 390K	1/6 300K
R309	2R 510	2R 390	2R 470	2R 560
R334	2R 750	2R 750	2R 750	2R 560
R336	—	2R 270	2R 270	2R 330
R340	1R 270	1R 330	2R 390	2R 270
R406	1/6 220	1/6 220	1/6 330	1/6 330
R407	1/6 130	1/6 130	1/6 150	1/6 150
C440	7000	7200	7000	7000
CNR	32	44	44	32
SDP	21	18	18	21


W662
SPK-1358(25")
SPK-1382(28")
6W 16 OHM
FRONT SPK
W661
P662 4P(2.5mm)
P661 3P(2.5mm)
Q673 2SC2878A
Q671 2SC2878A
R-MAIN
L-MAIN
POWER GND
WOOFER LINE
AUDIO GND
AUDIO +B
L901
DEGUSSING COIL
P803 2P(MINI)
AC 220-240V (LIMIT VOLTAGE) 50/60HZ
P801 MAINS/CORD/PLUG
F801 T3.15 L/250V
R801 1/2R5.6M(HIGH-OHM)
C801 0.1(AC250V)
T801 TRF3164 or TRF3157 TRF3164G
P802 2P(kaku)
S801 POWER SW.
C804 0.1(AC250V)
C803 2200(AC400V)
C802 2200(AC400V)
T802 NOT USE
FOR 25
D801 OR D3SB60 RBV-406M OR RBV606 2855 USED
C808 4700(AC250V)
C807 4700(AC250V)
R872 10W3.3 /15W
C809 270μ(400V) 24086037
Q801 STR-S6708 OR NEW(STR-6709)
START UP
O V P
LATCH
PROPORTIONAL DRIVE
PRE REG
THERMAL
O S C
OCP
REF
R803 1R68K
D802 BYD33J
L811 TEM2011
L810 TEM2011
L831 TRF3253D
D807 BYD33J
D808 BYD33J
D809 UZ5.6BSB
D855 RU4Z (2855DF) BYD33J (2855DD)
C855 2KV/680P
R817 1R0.27
R855 1R0.39
D815 UZ15BSB
C810 330μ(25V)
D804 UZ6.8BSB
C812 22μ(100V)
Q802 2SC3852 OR 2SD1944H
D810 1N4148
D803 BYD33J
D806 BYD33J
C811 470(500V)
C814 470(500V)
700V
500V
3V
0.6V
0.8V
GND

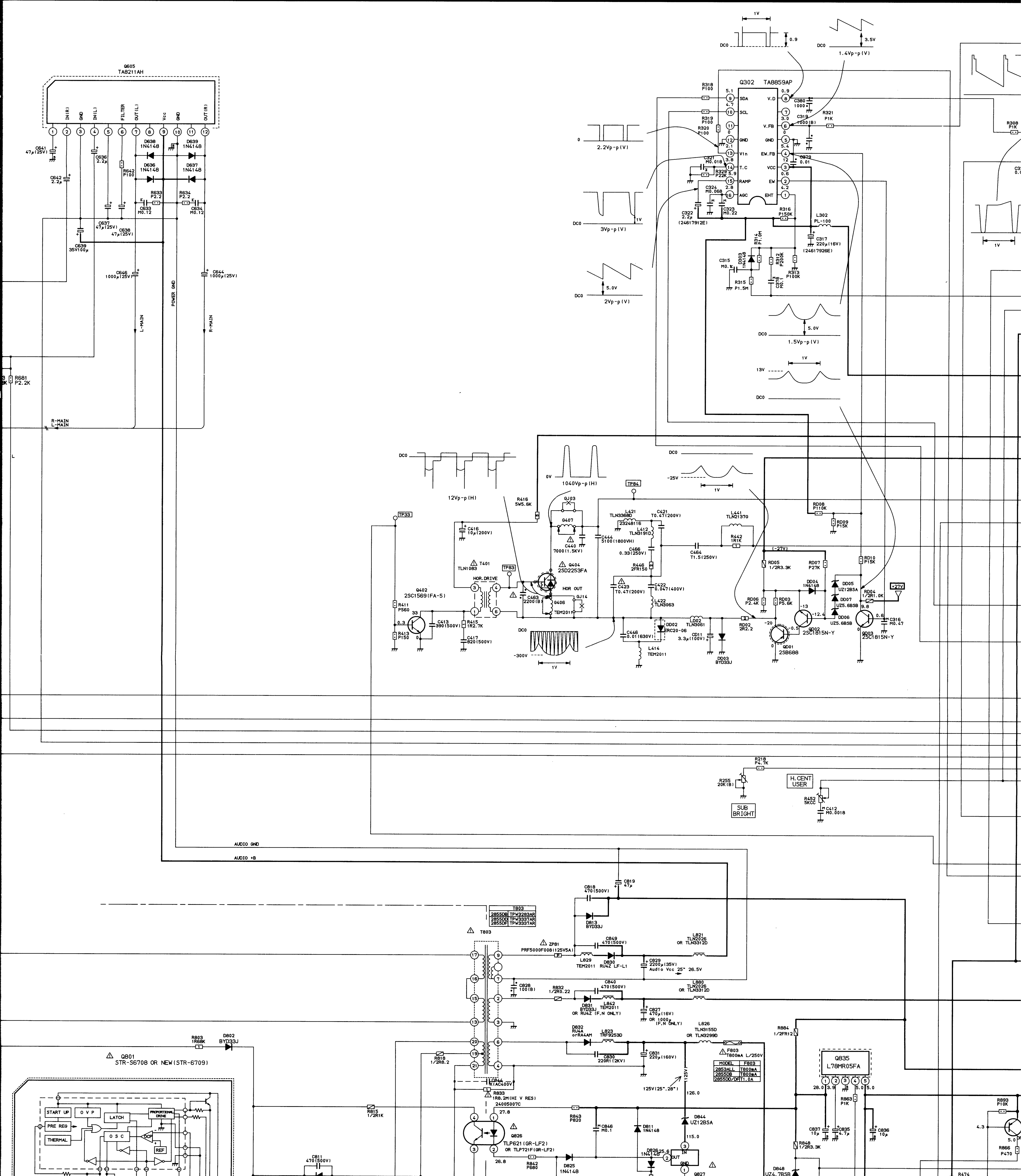
PAIR USED PARTS

	R1 2853DD VIDEO COLOUR	R2 2853DD PHILIPS	R1 2552DD VIDEO COLOUR	R2 2552DD PHILIPS
V901	A66ECY13X31	A66EAK71X01	A59EAK71X01	A59ECY13X31
R920	2FR/1.5	1FR 3.9	1FR 3.9	2FR 1.5
R303	1/6 56K	1/6 36K	1/6 36K	1/6 39K
R304	1/6 24K	1/6 51K	1/6 51K	1/6 82K
R306	1/6 47K	1/6 56K	1/6 56K	1/6 82K
R307	1/6 470K	1/6 390K	1/6 390K	1/6 300K
R309	2R 510	2R 390	2R 470	2R 560
R334	2R 750	2R 750	2R 750	2R 560
R336	—	2R 270	2R 270	2R 330
R340	1R 270	1R 330	2R 390	2R 270
R406	1/6 220	1/6 220	1/6 330	1/6 330
R407	1/6 130	1/6 130	1/6 150	1/6 150
C440	7000	7200	7000	7000
CNR	32	44	44	32
SDP	21	18	18	21

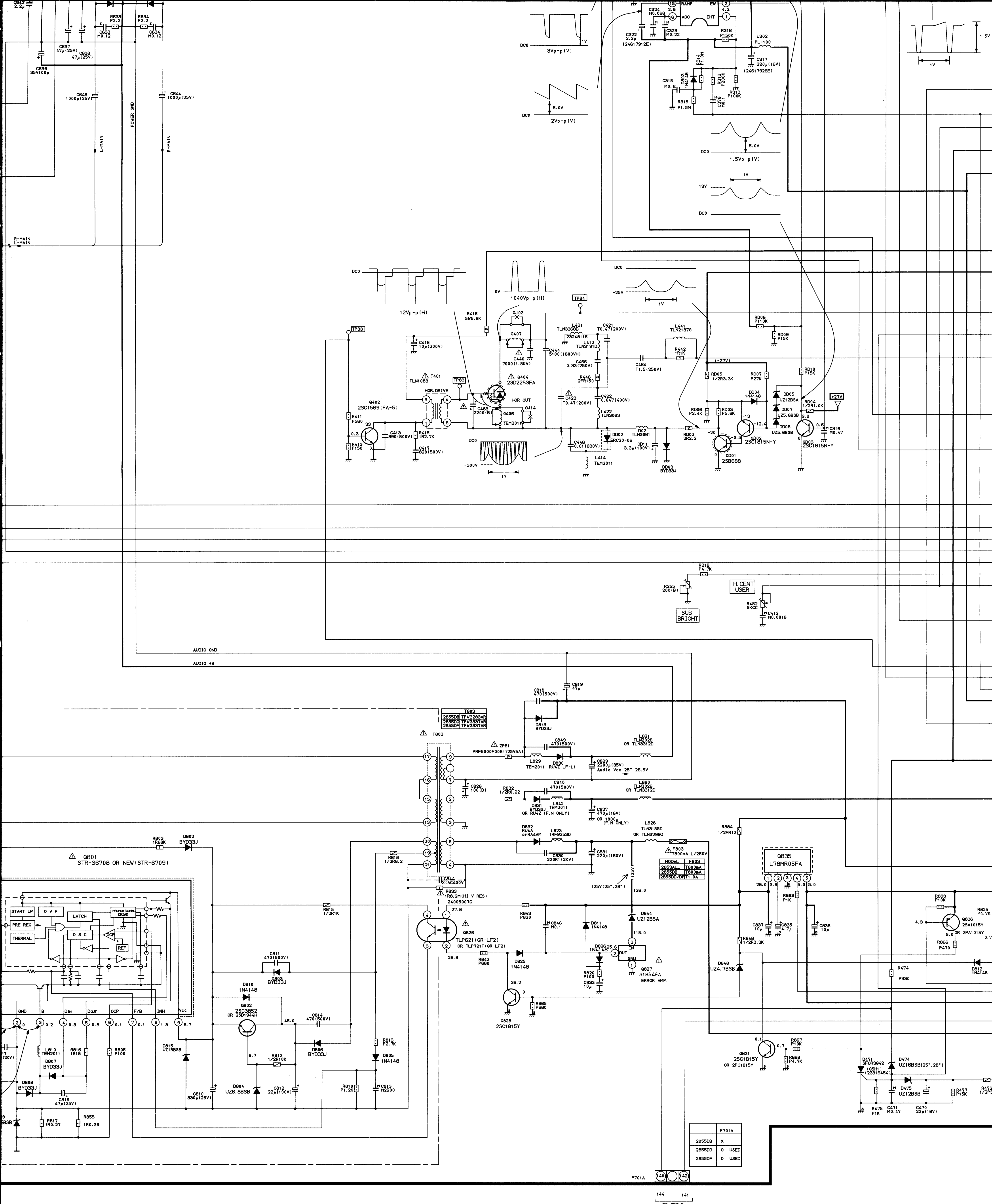
MODEL	F801	R855	R831	L831	C855	D855	R872	P701A	D831	C827	T803	T461
2852DB	T3.15	X	X	X	X	X	10W	X	BYD33J	470μ	TPW3283AR	TFB4117AR
2853ALL	T3.15	X	X	X	X	X	10W	X	BYD33J	470μ	TPW3283AR	TFB4117AR
DN	5ATH											
2855DB	T3.15	X	X	X	X	X	10W	X	BYD33J	470μ	TPW3283AR	TFB4117AR
2855DD	T3.15	0	0	0	0	0	15W	0	BYD33J	470μ	TPW3337AR	TFB4115AR
2855DF	5ATH	0	0	0	0	0	15W	0	RU4Z	1000μ	TPW3337AR	TFB4115AR

⚠	C802/C803
2855DB	2200PF400V
2855DD	1000PF400V
2855DF	1000PF400V

U903 POW.DEF.AUD.BOARD PB5449B(2552DD)/PB5504H(2853DD)



Q605
TA8211AH
IN(R)
GND
IN(L)
FILTER
OUT(L)
Vcc
GND
OUT(R)
C641 47µ(25V)
C642 2.2µ
C636 2.2µ
D638 1N4148
D639 1N4148
D636 1N4148
D637 1N4148
R642 P100
R633 P2.2
R634 P2.2
C633 M0.12
C634 M0.12
C637 47µ(25V)
C638 47µ(25V)
C639 35V100µ
C646 1000µ(25V)
C644 1000µ(25V)
POWER GND
L-MAIN
R-MAIN
R681 P2.2K
R-MAIN
L-MAIN
Q302 TA8859AP
SDA
SCL
GND
Vin
T.C
RAMP
AGC
V.D
V.FB
GND
EW.FB
VCC
EW
EHT
R318 P100
R319 P100
R320 P100
C380 1000
C319 1000(B)
R321 P1K
C321 M0.018
R329 P22K
C324 M0.068
C322 2.2µ (24617912E)
C323 M0.22
C379 0.01
R316 P150K
L302 PL-100
C317 220µ(16V) (24617926E)
R314 P1.0M
D303 1N4148
R312 P220K
C315 M0.1
R315 P1.5M
C376 M0.1
R313 P100K
2.2Vp-p(V)
3Vp-p(V)
2Vp-p(V)
5.0V
1.4Vp-p(V)
3.5V
1.5Vp-p(V)
13V
DC0
1V
R308 P1K
12Vp-p(H)
1040Vp-p(H)
0V
-25V
TP33
TP83
TP84
R416 5W5.6K
GJ03
G407
C440 7000(1.5KV)
Q404 2SD2253FA
HOR OUT
Q406
TEM2011
GJ14
C416 10µ(200V)
T401 TLN1083
HOR.DRIVE
Q402 2SC1569(FA-5)
R411 P560
R413 P150
C413 390(500V)
R415 1R2.7K
C417 820(500V)
C463 2200(B)
-300V
L421 TLN3368D
23248116
L412 TLN3191D
C421 T0.47(200V)
C444 5100(1800VH)
C466 0.33(250V)
R446 2FR150
C423 T0.47(200V)
C422 0.047(400V)
L422 TLN3063
C446 0.01(630V)
L414 TEM2011
DD02 ERC20-06
L441 TLN21370
C464 T1.5(250V)
R442 1R1K
LD02 TLN3061
CD11 3.3µ(100V)
DD03 BYD33J
RD08 P110K
RD09 P15K
(-27V)
RD05 1/2R3.3K
RD07 P27K
RD10 P15K
DD04 1N4148
DD05 UZ12BSA
DD07 UZ5.6BSB
DD06 UZ5.6BSB
RD04 1/2R1.0K
+27V
RD06 P2.4K
RD03 P5.6K
RD02 2R2.2
QD02 2SC1815N-Y
QD01 2SB688
QD03 2SC1815N-Y
C316 M0.47
R218 P4.7K
R255 20K(B)
SUB BRIGHT
H.CENT USER
R452 5KCC
C412 M0.0018
AUDIO GND
AUDIO +B
C818 470(500V)
C819 47µ
D813 BYD33J
T803
2855DB TPW3283AR
2855DD TPW3337AR
2855DF TPW3337AR
ZP81
PRF5000F008(125V5A)
C849 470(500V)
L821 TLN2026 OR TLN3312D
L829 TEM2011
D830 RU4Z LF-L1
C829 2200µ(35V)
Audio Vcc 25" 26.5V
C828 100(B)
R832 1/2R0.22
C840 470(500V)
L880 TLN2026 OR TLN3312D
D831 BYD33J OR RU4Z (F.N ONLY)
L842 TEM2011
C827 470µ(16V) OR 1000µ (F.N ONLY)
D832 RU4A orRA4AM
L823 TRF9253D
L826 TLN3155D OR TLN3299D
C830 220R1(2KV)
C831 220µ(160V)
F803 T800mA L/250V
MODEL F803
2853ALL T800mA
2855DB T800mA
2855DD/DF T1.0A
125V(25".28")
126.0
R884 1/2FR12
R803 1R68K
D802 BYD33J
Q801 STR-S6708 OR NEW(STR-6709)
START UP
O V P
LATCH
PROPORTIONAL DRIVE
PRE REG
THERMAL
O S C
OCP
REF
R815 1/2R1K
R818 1/2R8.2
C844 K1AC400V
R833 1R8.2M(HI V RES) 24005007C
27.8
Q826 TLP621(GR-LF2) OR TLP721F(GR-LF2)
26.8
R843 P820
C846 M0.1
D811 1N4148
D844 UZ12BSA
115.0
R842 P680
D825 1N4148
D826 1N4148
IN OUT GND
Q827
C811 470(500V)
Q835 L78MR05FA
28.0
3.9
5.0
R863 P1K
C837 10µ
C835 4.7µ
C836 10µ
R848 1/2R3.3K
D848 UZ4.7BSB
R893 P10K
4.3
5.0
R866 P470
R474

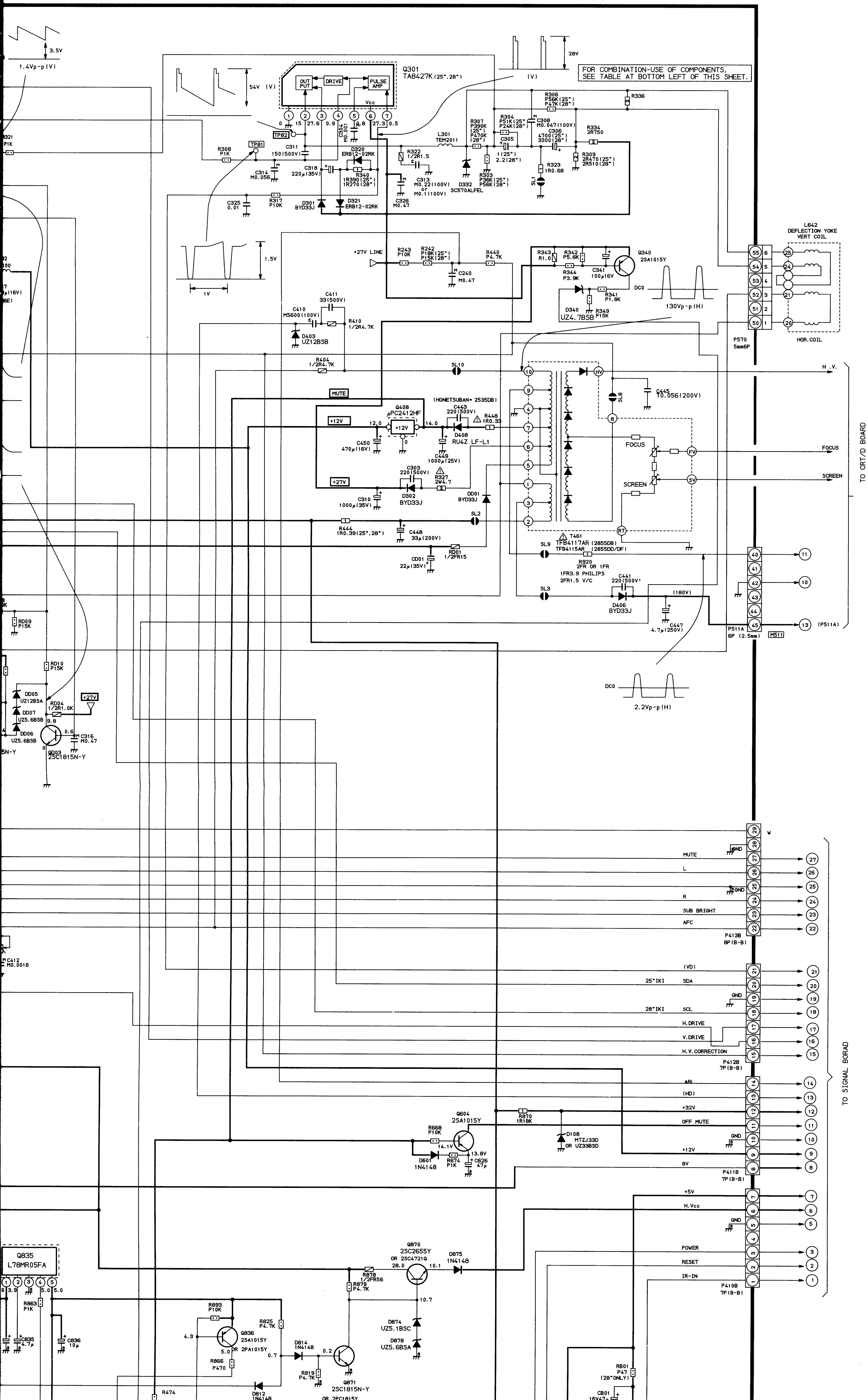

C642 2.2µ
R633 P2.2
R634 P2.2
C633 M0.12
C634 M0.12
C637 47µ(25V)
C638 47µ(25V)
C639 35V100µ
C646 1000µ(25V)
C644 1000µ(25V)
POWER GND
L-MAIN
R-MAIN
R-MAIN
L-MAIN
DC0
3Vp-p(V)
1V
5.0V
2Vp-p(V)
C324 M0.068
RAMP
AGC
EHT
EW
2.8
4.2
C322 2.2µ
(24617912E)
C323 M0.22
R316 P150K
L302 PL-100
C317 220µ(16V)
(24617926E)
R314 P1.0M
D303 1N4148
C315 M0.1
R312 P200K
R313 P100K
C316 M0.1
R315 P1.5M
1.5Vp-p(V)
13V
1.5V
12Vp-p(H)
0V
1040Vp-p(H)
TP84
-25V
TP33
R416 SW5.6K
GJ03
Q407
C440 7000(1.5KV)
C416 10µ(200V)
T401 TLN1083
HOR.DRIVE
TP83
Q404 2SD2253FA
HOR OUT
GJ14
C463 2200(B)
Q406
TEM2011
Q402 2SC1569(FA-5)
R411 P560
R413 P150
C413 390(500V)
R415 1R2.7K
C417 820(500V)
-300V
L421 TLN3368D
23248116
L412 TLN3191D
C421 T0.47(200V)
C444 5100(1800VH)
C466 0.33(250V)
R446 2FR150
C423 T0.47(200V)
C422 0.047(400V)
L422 TLN3063
C446 0.01(630V)
L414 TEM2011
DD02 ERC20-06
LD02 TLN3061
CD11 3.3µ(100V)
DD03 BYD33J
C464 T1.5(250V)
L441 TLN21370
R442 1R1K
(-27V)
RD05 1/2R3.3K
RD07 P27K
RD08 P110K
RD09 P15K
RD10 P15K
DD04 1N4148
DD05 UZ12BSA
DD07 UZ5.6BSB
DD06 UZ5.6BSB
RD04 1/2R1.0K
+27V
RD06 P2.4K
RD03 P5.6K
RD02 2R2.2
QD02 2SC1815N-Y
QD01 2SB688
QD03 2SC1815N-Y
C316 M0.47
R218 P4.7K
R255 20K(B)
SUB BRIGHT
H.CENT USER
R452 5KCC
C412 M0.018
AUDIO GND
AUDIO +B
C818 470(500V)
C819 47µ
D813 BYD33J
T803
ZP81 PRF5000F008(125V5A)
L829 TEM2011
C849 470(500V)
D830 RU4Z LF-L1
L821 TLN2026 OR TLN3312D
C829 2200µ(35V)
Audio Vcc 25" 26.5V
C828 100(B)
R832 1/2R0.22
C840 470(500V)
D831 BYD33J OR RU4Z (F,N ONLY)
L842 TEM2011
L880 TLN2026 OR TLN3312D
C827 470µ(16V) OR 1000µ (F,N ONLY)
D832 RU4A orRA4AM
L823 TRF9253D
C830 220R1(2KV)
C831 220µ(160V)
L826 TLN3155D OR TLN3299D
F803 T800mA L/250V
125V(25",28")
126.0
R884 1/2FR12
Q835 L78MR05FA
28.0 3.9 5.0 5.0
C837 10µ
C835 4.7µ
R863 P1K
C836 10µ
R893 P10K
R825 P4.7K
Q836 2SA1015Y OR 2PA1015Y
R866 P470
D812 1N4148
R803 1R68K
D802 BYD33J
Q801 STR-S6708 OR NEW(STR-6709)
R818 1/2R8.2
C844 X(AC400V)
R833 1R8.2M(HI V RES) 24005007C
R815 1/2R1K
27.8
Q826 TLP621(GR-LF2) OR TLP721F(GR-LF2)
26.8
R843 P820
C846 M0.1
D811 1N4148
D844 UZ12BSA
115.0
D826 1N4148
25.6
Q827 S1854FA ERROR AMP.
R842 P680
D825 1N4148
26.2
R820 P100
C833 10µ
Q828 2SC1815Y
R865 P680
R848 1/2R3.3K
D848 UZ4.7BSB
R474 P330
Q831 2SC1815Y OR 2PC1815Y
R867 P10K
R868 P4.7K
D471 SFOR3042 (G5H1) (23316454)
D474 UZ16BSB(25",28")
D475 UZ12BSA
R475 P1K
C471 M0.47
C470 22µ(16V)
R477 P15K
START UP
O V P
LATCH
PROPORTIONAL DRIVE
PRE REG
O S C
OCP
THERMAL
REF
GND
B
DIN
DOUT
OCP
F/B
INH
Vcc
0.2
0.3
0.8
0.1
0.1
1.3
8.7
L810 TEM2011
D807 BYD33J
R816 1R18
R805 P100
D815 UZ15BSB
D808 BYD33J
C816 47µ(25V)
R817 1R0.27
R855 1R0.39
C811 470(500V)
D803 BYD33J
D810 1N4148
Q802 2SC3852 OR 2SD1944H
C814 470(500V)
45.0
D806 BYD33J
6.7
R812 1/2R10K
D804 UZ6.8BSB
C812 22µ(100V)
C810 330µ(25V)
R813 P2.7K
D805 1N4148
R810 P1.2K
C813 M2200
P701A
140
142
144
141
TO-CRT.D
P701B

T803	
2855DB	TPW3283AR
2855DD 2855DF	TPW3337AR TPW3337AR

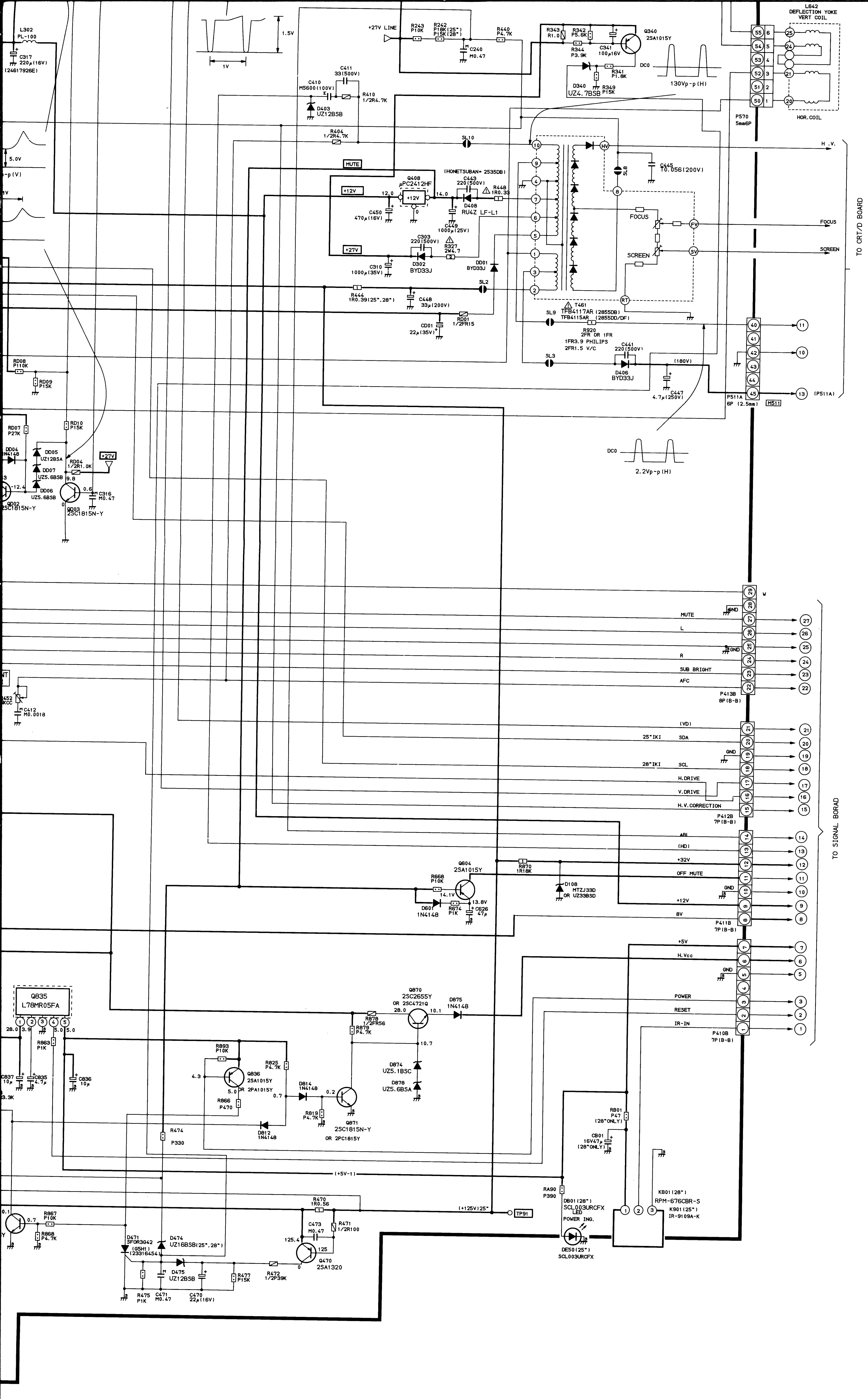
MODEL	F803
2853ALL	T800mA
2855DB	T800mA
2855DD/DF	T1.0A

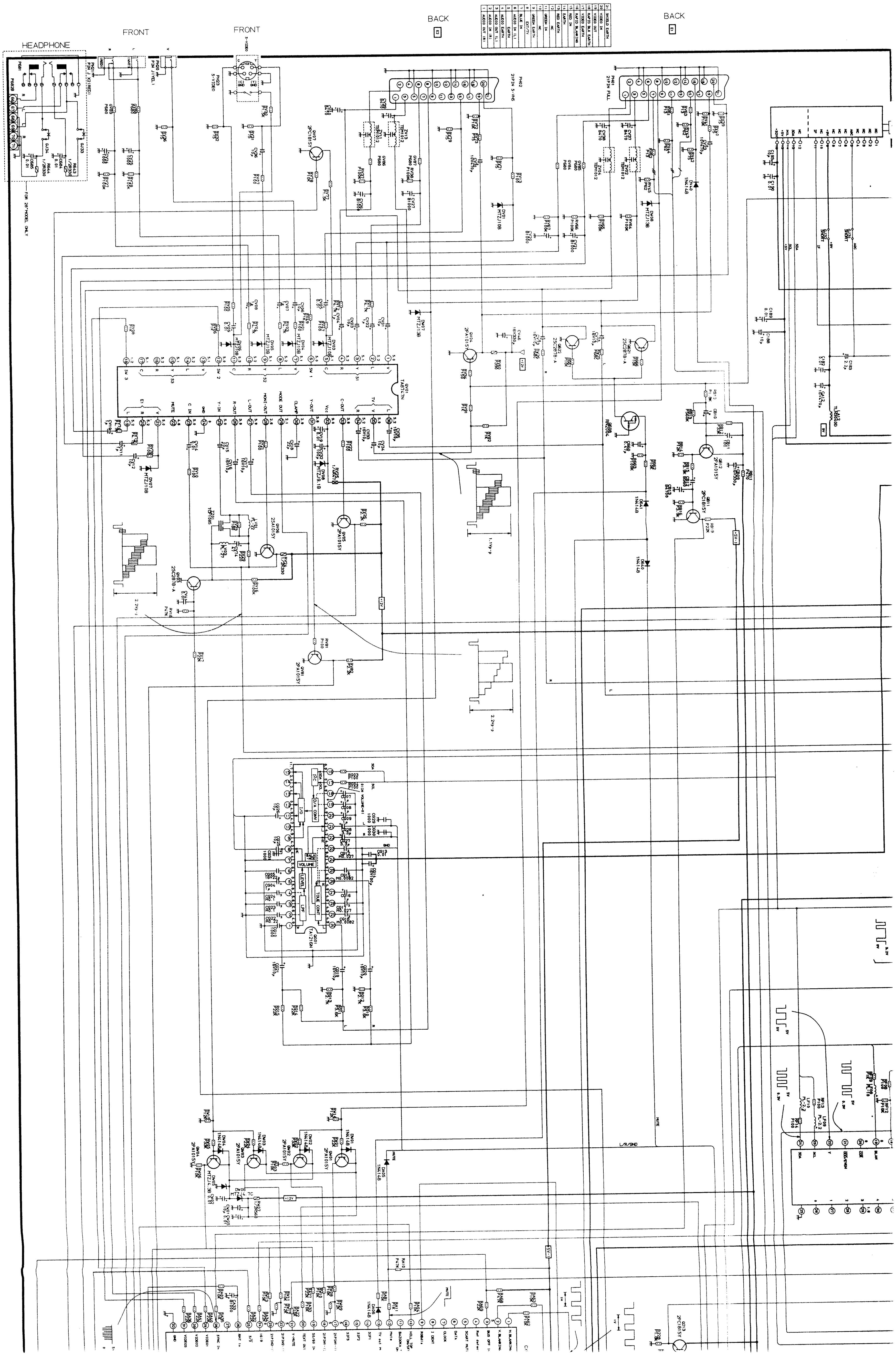
	P701A
2855DB	X
2855DD 2855DF	O USED O USED

04H(2853DD)



FOR COMBINATION-USE OF COMPONENTS.
SEE TABLE AT BOTTOM LEFT OF THIS SHEET.
3.5V
1.4Vp-p(V)
54V (V)
28V
(V)
Q301
TA8427K(25".28")
OUT PUT
DRIVE
PULSE AMP
Vcc
15
27.6
0.9
8.8
27.3
0.5
TP82
TP81
R308 P1K
C311 150(500V)
C314 M0.056
C318 220µ(35V)
C304 M0.001
D320 ERB12-02RK
R340 1R390(25") 1R270(28")
R322 1/2R1.5
C313 M0.22(100V) or M0.1(100V)
C326 M0.47
L301 TEM2011
D332 SC570ALFEL
R307 P390K(25") P470K(28")
R304 P51K(25") P24K(28")
C305 1(25") 2.2(28")
R303 P36K(25") P56K(28")
R306 P56K(25") P47K(28")
C308 M0.047(100V)
C306 4700(25") 3300(28")
R323 1R0.68
SL1
R336
R334 2R750
R309 2R470(25") 2R510(28")
C325 0.01
R317 P10K
D301 BYD33J
D321 ERB12-02RK
1.5V
1V
+27V LINE
R243 P10K
R242 P18K(25") P15K(28")
C240 M0.47
R440 P4.7K
R343 R1.0
R342 P5.6K
R344 P3.9K
C341 100µ16V
Q340 2SA1015Y
R341 P1.8K
D340 UZ4.7BSB
R349 P15K
DC0
130Vp-p(H)
C411 33(500V)
C410 MS600(100V)
R410 1/2R4.7K
D403 UZ12BSB
R404 1/2R4.7K
SL10
MUTE
+12V
+27V
Q408 µPC2412HF
(HONETSUBAN= 2535DB)
C443 220(500V)
R448 1R0.33
12.0
14.0
C450 470µ(16V)
D408 RU4Z LF-L1
C449 1000µ(25V)
C303 220(500V)
R327 2W4.7
D302 BYD33J
DD01 BYD33J
C310 1000µ(35V)
R444 1R0.39(25".28")
SL2
C448 33µ(200V)
CD01 22µ(35V)
RD01 1/2FR15
SL8
C445 10.056(200V)
HV
FOCUS
SCREEN
FV
SV
RT
T461 TFB4117AR (2855DB) TFB4115AR (2855DD/DF)
SL9
R920 2FR OR 1FR 1FR3.9 PHILIPS 2FR1.5 V/C
SL3
C441 220(500V)
D406 BYD33J
(180V)
C447 4.7µ(250V)
DC0
2.2Vp-p(H)
L642 DEFLECTION YOKE VERT COIL
HOR.COIL
P570 5mm6P
H.V.
FOCUS
SCREEN
TO CRT/D BOARD
P511A 6P (2.5mm)
M511
(P511A)
RD09 P15K
RD10 P15K
DD05 UZ12BSA
DD07 UZ5.6BSB
DD06 UZ5.6BSB
RD04 1/2R1.0K
+27V
9.8
0.6
C316 M0.47
QD03 2SC1815N-Y
C412 M0.0018
W
GND
MUTE
L
R
SUB BRIGHT
AFC
P413B 8P(B-B)
(VD)
25"IKI
SDA
28"IKI
SCL
H.DRIVE
V.DRIVE
H.V.CORRECTION
P412B 7P(B-B)
ABL
(HD)
+32V
OFF MUTE
+12V
8V
P411B 7P(B-B)
+5V
H.Vcc
POWER
RESET
IR-IN
P410B 7P(B-B)
TO SIGNAL BORAD
Q604 2SA1015Y
R668 P10K
R870 1R18K
D108 MTZJ33D OR UZ33BSD
14.1V
13.8V
D601 1N4148
R674 P1K
C626 47µ
Q835 L78MR05FA
3.9
5.0
R863 P1K
C835 4.7µ
C836 10µ
Q870 2SC2655Y OR 2SC4721Q
28.0
10.1
D875 1N4148
R878 1/2FR56
R879 P4.7K
10.7
D874 UZ5.1BSC
D878 UZ5.6BSA
R893 P10K
4.3
Q836 2SA1015Y OR 2PA1015Y
R825 P4.7K
5.0
R866 P470
D814 1N4148
0.7
0.2
R819 P4.7K
Q871 2SC1815N-Y OR 2PC1815Y
D812 1N4148
R474
R801 P47 (28"ONLY)
C801 16V47µ


L302
PL-100
C317
220μ(16V)
(24817926E)
1.5V
1V
5.0V
+27V LINE
R243 P10K
R242 P18K(25") P15K(28")
C240 M0.47
R440 P4.7K
R343 R1.0
R342 P5.6K
R344 P3.9K
C341 100μ16V
Q340 2SA1015Y
D340 UZ4.7BSB
R341 P1.8K
R349 P15K
DC0
130Vp-p(H)
L642
DEFLECTION YOKE
VERT COIL
HOR.COIL
P570 5mm6P
C411 33(500V)
C410 MS600(100V)
R410 1/2R4.7K
D403 UZ12BSB
R404 1/2R4.7K
SL10
MUTE
Q408 μPC2412HF
(HONETSUBAN= 2535DB)
C443 220(500V)
R448 1R0.33
D408 RU4Z LF-L1
+12V
12.0
14.0
C450 470μ(16V)
C449 1000μ(25V)
C303 220(500V)
R327 2W4.7
+27V
D302 BYD33J
DD01 BYD33J
C310 1000μ(35V)
SL2
R444 1R0.39(25",28")
C448 33μ(200V)
CD01 22μ(35V)
RD01 1/2FR15
HV
SL8
C445 T0.056(200V)
FOCUS
SCREEN
FV
SV
RT
H.V.
TO CRT/D BOARD
T461 TFB4117AR (2855DB) TFB4115AR (2855DD/DF)
SL9
R920 2FR OR 1FR 1FR3.9 PHILIPS 2FR1.5 V/C
SL3
C441 220(500V)
D406 BYD33J
(180V)
C447 4.7μ(250V)
P511A 6P (2.5mm)
M511
(P511A)
DC0
2.2Vp-p(H)
RD08 P110K
RD09 P15K
RD07 P27K
RD10 P15K
DD04 1N4148
DD05 UZ12BSA
DD07 UZ5.6BSB
DD06 UZ5.6BSB
RD04 1/2R1.0K
+27V
-12.4
9.8
0.6
C316 M0.47
QD02 2SC1815N-Y
QD03 2SC1815N-Y
452 KCC
C412 M0.0018
W
GND
MUTE
L
R
SUB BRIGHT
AFC
P413B 8P(B-B)
(VD)
25"IKI SDA
28"IKI SCL
H.DRIVE
V.DRIVE
H.V.CORRECTION
P412B 7P(B-B)
ABL
(HD)
+32V
OFF MUTE
+12V
8V
P411B 7P(B-B)
+5V
H.Vcc
POWER
RESET
IR-IN
P410B 7P(B-B)
TO SIGNAL BORAD
Q604 2SA1015Y
R668 P10K
R870 1R18K
D108 MTZJ33D OR UZ33BSD
14.1V
13.8V
D601 1N4148
R674 P1K
C626 47μ
Q835 L78MR05FA
28.0
3.9
5.0
5.0
R863 P1K
C837 10μ
C835 4.7μ
C836 10μ
3.3K
R893 P10K
Q836 2SA1015Y OR 2PA1015Y
4.3
5.0
R825 P4.7K
R866 P470
0.7
D814 1N4148
0.2
R819 P4.7K
Q871 2SC1815N-Y OR 2PC1815Y
D812 1N4148
R474 P330
Q870 2SC2655Y OR 2SC4721Q
R878 1/2FR56
R879 P4.7K
28.0
10.1
10.7
D875 1N4148
D874 UZ5.1BSC
D878 UZ5.6BSA
RB01 P47 (28"ONLY)
CB01 16V47μ (28"ONLY)
(+5V-1)
RA90 P390
DB01(28") SCL003URCFX LED POWER IND.
DE50(25") SCL003URCFX
KB01(28") RPM-676CBR-S
K901(25") IR-9109A-K
(+125V)25"
TP91
R470 1R0.56
C473 M0.47
R471 1/2R100
125.4
125
0
Q470 2SA1320
R867 P10K
R868 P4.7K
0.7
D471 SFOR3042 (GSHI) (233164541)
D474 UZ16BSB(25",28")
D475 UZ12BSB
R472 1/2P39K
R477 P15K
R475 P1K
C471 M0.47
C470 22μ(16V)


HEADPHONE
FRONT
FRONT
BACK
BACK
FOR 28" MODEL ONLY
S-VIDEO
MUTE
L/R/GND
+12V
+5V

:0

e.

d

st

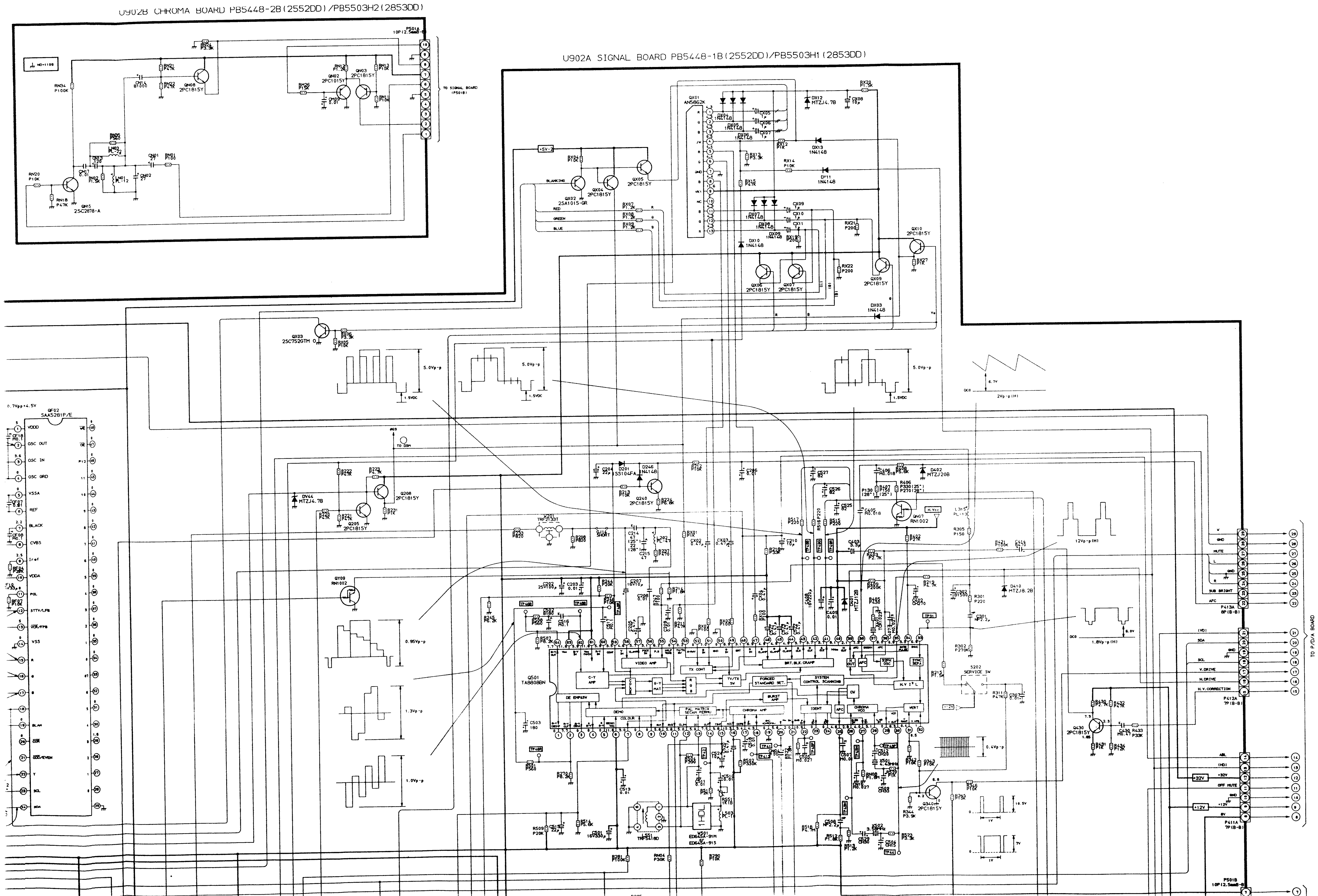
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ⊖ : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.



U902B CHROMA BOARD PB5448-2B(2552DD)/PB5503H2(2853DD)
U902A SIGNAL BOARD PB5448-1B(2552DD)/PB5503H1(2853DD)
TO SIGNAL BOARD (P5818)
QX01 AN5862K
QX02 2SA1015-GR
QX03 2SC752GTM
QX04 2PC1815Y
QX05 2PC1815Y
QX06 2PC1815Y
QX07 2PC1815Y
QX09 2PC1815Y
QX10 2PC1815Y
QF02 SAA5281P/E
Q501 TA8680BN
Q205 2PC1815Y
Q208 2PC1815Y
Q240 2PC1815Y
Q340 2PC1815Y
Q430 2PC1815Y
QY09 RN1002
QN02 2PC1015Y
QN03 2PC1815Y
QN08 2PC1815Y
QN15 2SC2878-A
DV44 MTZJ4.7B
D402 MTZJ20B
D413 MTZJ8.2B
DX12 MTZJ4.7B
DX13 1N4148
DX11 1N4148
DX03 1N4148
BLANKING
RED
GREEN
BLUE
5.0Vp-p
1.5VDC
2Vp-p(H)
12Vp-p(H)
1.8Vp-p(H)
0.95Vp-p
1.3Vp-p
1.0Vp-p
0.4Vp-p
VIDEO AMP
TX CONT
BRT.BLK.CRAMP
SYSTEM CONTROL SCANNING
FORCED STANDARD SET
DE EMPASIS
DEMO
COLOUR
PAL MATRIX SECAM PERMU
CHROMA AMP
BURST AMP
IDENT
APC
CHROMA VCO
VERT
H.V.I.L
SYNC SEP
S202 SERVICE SW
TO P/D/A BOARD
P413A 8P(B-B)
P412A 7P(B-B)
P411A 7P(B-B)
P501B 10P(2.5mm)
V
GND
MUTE
L
R
SUB BRIGHT
AFC
(VD)
SDA
SCL
V.DRIVE
H.DRIVE
H.V.CORRECTION
ABL
(HD)
+32V
OFF MUTE
+12V
8V

SPECIFICATIONS

Input Power Rating:	90 watts (2552DD), 95 watts (2853DD/7053DD), AC 220 ~ 240 volts, 50 Hz		
Aerial Input Impedance:	75 ohm unbalanced type for VHF, UHF and CATV UHF		
Receiving Channels:	**CCIR (B/G.PAL) TV Broadcast Standard:**		
	VHF	channels 2 to 4, 5 to 12	
	UHF	channels 21 to 69	
	CATV	channels S1 to S41	
Intermediate Frequencies:	Picture I-F carrier frequency	38.9 MHz	
	Sound I-F carrier frequency	33.4 MHz	
	Colour sub-carrier frequency	34.47MHz	
Picture Tube:	25 inches, A59EAK71X01, 590 mm (measured on diagonal of viewble picture area), 110° deflection (2552DD) 28 inches, A66ECY13X31, 660 mm (measured on diagonal of viewble picture area), 110° deflection (2853DD/7053DD)		
Sound Output:	10.0 watts x 2 (at 10% Distortion MAIN)		
Speakers:	160 mm x 40 mm oval 2 pcs (2552DD) 120 mm x 60 mm oval 2 pcs (2853DD/7053DD)		
Aux. Terminals:	21 pin socket (FULL), 21 pin socket (S-VIDEO/AUDIO), S-VIDEO, VIDEO/AUDIO INPUT socket		
Cabinet:	Table type	(2552DD)	(2853DD/7053DD)
Dimensions:	Height	516 mm	568.7 mm
	Width	640 mm	780 mm
	Depth	447 mm	480 mm
Mass:	27.0 kg (2552DD), 33.5 kg (2853DD/7053DD)		
Features:	Video input of PAL-B/G, TELETEXT reception, OFF-timer, German stereo/ bilingual		

Specifications are subject to change without notice.

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-01, JAPAN